

10/512699

10/590707 Y = direct bond

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NEWS 4 JUL 02 CHEMCATS accession numbers revised  
NEWS 5 JUL 02 CA/CAPplus enhanced with utility model patents from China  
NEWS 6 JUL 16 CAPplus enhanced with French and German abstracts  
NEWS 7 JUL 18 CA/CAPplus patent coverage enhanced  
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NEWS 12 AUG 06 FSTA enhanced with new thesaurus edition  
NEWS 13 AUG 13 CA/CAPplus enhanced with additional kind codes for granted patents  
NEWS 14 AUG 20 CA/CAPplus enhanced with CAS indexing in pre-1907 records  
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NEWS 17 AUG 28 CAS REGISTRY enhanced with additional experimental spectral property data  
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NEWS 19 SEP 13 FORIS renamed to SOFIS  
NEWS 20 SEP 13 INPADOCDB enhanced with monthly SDI frequency  
NEWS 21 SEP 17 CA/CAPplus enhanced with printed CA page images from 1967-1998  
NEWS 22 SEP 17 CAPplus coverage extended to include traditional medicine patents  
  
NEWS EXPRESS 19 SEPTEMBER 2007: CURRENT WINDOWS VERSION IS V8.2, CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP), AND CURRENT DISCOVER FILE IS DATED 19 SEPTEMBER 2007.  
  
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COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

5.46

5.46

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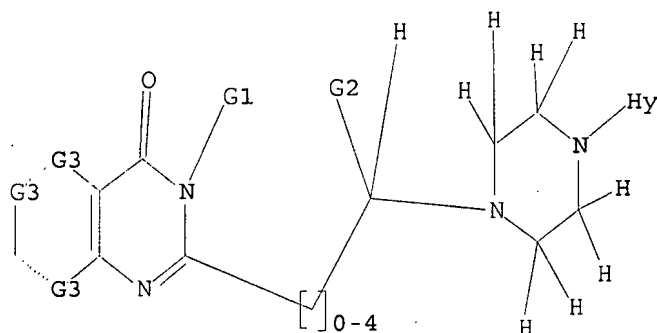
L1 STRUCTURE UPLOADED

=> d l1

L1 HAS NO ANSWERS

L1 STR

10/513699



G1 H, NH2, Cb, Ak

G2 C, H, Ak

G3 C, N

Structure attributes must be viewed using STN Express query preparation.

=> s l1 full

FULL SEARCH INITIATED 14:10:35 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 4898 TO ITERATE

100.0% PROCESSED 4898 ITERATIONS

152 ANSWERS

SEARCH TIME: 00.00.01

L2 152 SEA SSS FUL L1

=> file caplus

COST IN U.S. DOLLARS

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ENTRY

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FULL ESTIMATED COST

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178.01

FILE 'CAPLUS' ENTERED AT 14:10:41 ON 19 SEP 2007

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FILE LAST UPDATED: 18 Sep 2007 (20070918/ED)

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=> s l2 full

L3 3 L2

=> d ibib abs hitstr tot

L3 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2007 ACS on STN  
ACCESSION NUMBER: 2007:729635 CAPLUS  
DOCUMENT NUMBER: 147:72778  
TITLE: Preparation of quinazolinone derivatives and related  
analogs as antiproliferative agents  
INVENTOR(S): Bergnes, Gustave  
PATENT ASSIGNEE(S): Cytokinetics, Inc., USA  
SOURCE: PCT Int. Appl., 54pp.  
CODEN: PIXXD2  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 2  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004018058	A2	20040304	WO 2003-US26093	20030820
WO 2004018058	A3	20040701		
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
AU 2003262747	A1	20040311	AU 2003-262747	20030820
EP 1539180	A2	20050615	EP 2003-793179	20030820
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK			
JP 2005536553	T	20051202	JP 2004-531141	20030820
PRIORITY APPLN. INFO.:			US 2002-404864P	P 20020821
			WO 2003-US26093	W 20030820
OTHER SOURCE(S):	MARPAT 147:72778			
GI				

\* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT \*

AB Title compds. I [R1-4 independently = H, OH, (un)substituted alkyl, etc.; R5 = H, (un)substituted alkyl, aryl, or aralkyl; R6 and R9 independently = H, (un)substituted alkyl, aryl, etc.; R7 = (un)substituted alkyl, aryl or aralkyl; R8 = H, (un)substituted alkyl, aryl or aralkyl; n = 1 or 2], and their pharmaceutically acceptable salts, are prepared and disclosed as antiproliferative agents by modulation of KSP (a mitotic kinesin) activity. Thus, e.g., II was prepared by substitution of 3-benzyl-2-(1-bromopropyl)-7-chloro-3H-quinazolin-4-one with 3-p-tolylpiperazine-1-carboxylic acid tert-Bu ester. Bioassays are described and the compds. of the invention were stated to show activity.

10/513699

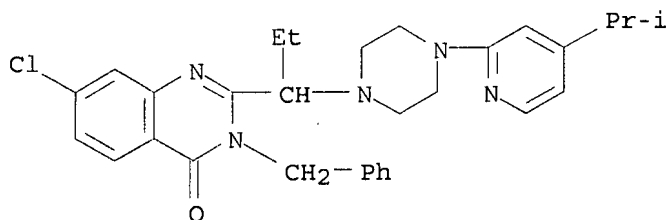
IT 941712-02-3P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of quinazolone derivs. and related analogs as antiproliferative agents)

RN 941712-02-3 CAPLUS

CN 4(3H)-Quinazolinone, 7-chloro-2-[1-[4-[4-(1-methylethyl)-2-pyridinyl]-1-piperazinyl]propyl]-3-(phenylmethyl)- (CA INDEX NAME)



L3 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2005:979639 CAPLUS

DOCUMENT NUMBER: 143:286443

TITLE: Preparation of pyrimidine derivatives as 5-HT3 receptor antagonists having agonistic activity on 5-HT1A

INVENTOR(S): Sato, Michitaka; Matsui, Teruaki; Asagarasu, Akira; Hayashi, Hiroyuki; Araki, Seiichi; Tamaoki, Satoru; Takahashi, Nobuyuki; Yamauchi, Yukinao; Yamamoto, Yoshiko; Yamamoto, Norio; Ogawa, Chisato

PATENT ASSIGNEE(S): Teikoku Hormone Mfg. Co., Ltd., Japan

SOURCE: PCT Int. Appl., 261 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005082887	A1	20050909	WO 2005-JP3691	20050225
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
RW:	BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
AU 2005217320	A1	20050909	AU 2005-217320	20050225
CA 2557541	A1	20050909	CA 2005-2557541	20050225
EP 1724267	A1	20061122	EP 2005-719969	20050225
R:	AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR			

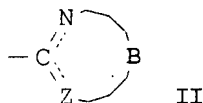
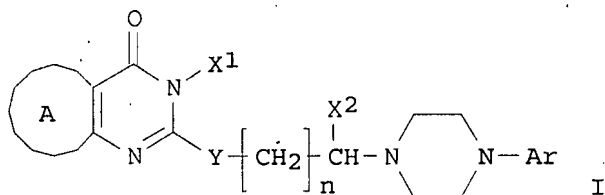
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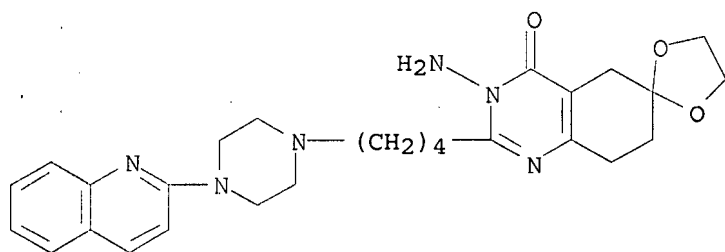
CN 1922171	A	20070228	CN 2005-80005603	20050225
US 2007197551	A1	20070823	US 2006-590707	20060825
PRIORITY APPLN. INFO.:			JP 2004-52040	A 20040226
			JP 2004-322858	A 20041105
			WO 2005-JP3691	W 20050225

OTHER SOURCE(S): MARPAT 143:286443  
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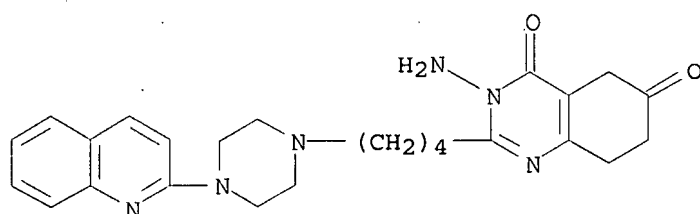
- AB Title compds. I [ring A = carbocyclic group, etc.; X1 = H, amino, etc.; X2 = H, alkyl; Y = bond, etc.; n = 0-4; Ar = optionally substituted II with halo, etc.; Z = O, etc.; B = moiety required for completing mono-, ploy-heterocyclic ring containing N together with N-C-Z; dotted line indicates single, double bond] were prepared For example, treatment of potassium 3-amino-5,6-dimethyl-4-oxo-3,4-dihydrothieno[2,3-d]pyrimidine-2-thiolate with 2-[4-(3-chloropropyl)piperazin-1-yl]quinoline, e.g., prepared from piperazine in 2 steps, afforded 3-amino-5,6-dimethyl-2-[3-(4-quinolin-2-ylpiperazin-1-yl)propylthio]-3H-thieno[2,3-d]pyrimidin-4-one (III) in 50% yield. In 5-HT<sub>3</sub> receptor affinity assay (in vitro), compound III exhibited the antagonistic activity of 94% at 10<sup>-7</sup> M. Compds. I are claimed useful for the treatment of anxiety, depression, etc. Formulation is given.
- IT 864386-59-4P 864386-62-9P  
RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)  
(preparation of pyrimidine derivs. as 5-HT<sub>3</sub> receptor antagonists having agonistic activity on 5-HT<sub>1A</sub> for treatment of anxiety, depression, etc.)
- RN 864386-59-4 CAPLUS  
CN Spiro[1,3-dioxolane-2,6'-(5'H)-quinazolin]-4'-(3'H)-one,  
3'-amino-7',8'-dihydro-2'-[4-[4-(2-quinolinyl)-1-piperazinyl]butyl]- (9CI)  
(CA INDEX NAME)

10/513699



RN 864386-62-9 CAPLUS

CN 4,6-Quinazolinedione, 3-amino-3,5,7,8-tetrahydro-2-[4-[4-(2-quinolinyl)-1-piperazinyl]butyl]- (CA INDEX NAME)



IT 864385-95-5P 864385-96-6P 864385-97-7P  
864385-98-8P 864385-99-9P 864386-00-5P  
864386-01-6P 864386-02-7P 864386-03-8P  
864386-04-9P 864386-05-0P 864386-06-1P  
864386-07-2P 864386-08-3P 864386-09-4P  
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864386-14-1P 864386-15-2P 864386-16-3P  
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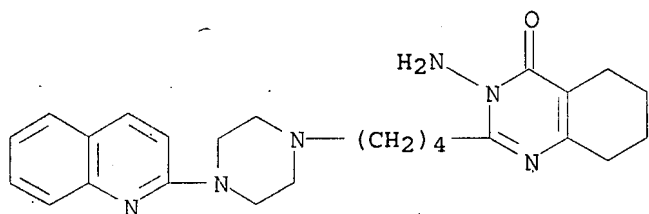
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of pyrimidine derivs. as 5-HT<sub>3</sub> receptor antagonists having agonistic activity on 5-HT<sub>1A</sub> for treatment of anxiety, depression, etc.)

10/513699

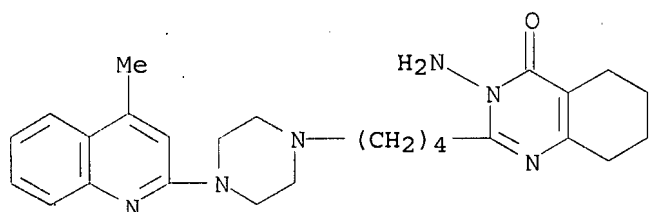
RN 864385-95-5 CAPLUS

CN 4(3H)-Quinazolinone, 3-amino-5,6,7,8-tetrahydro-2-[4-[4-(2-quinolinyl)-1-piperazinyl]butyl]- (CA INDEX NAME)



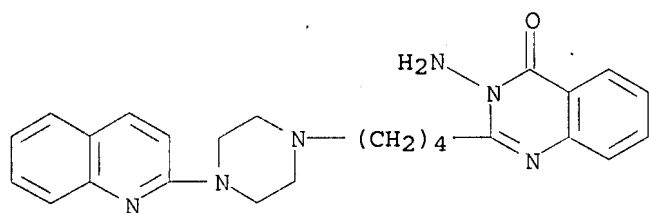
RN 864385-96-6 CAPLUS

CN 4(3H)-Quinazolinone, 3-amino-5,6,7,8-tetrahydro-2-[4-[4-(4-methyl-2-quinolinyl)-1-piperazinyl]butyl]- (CA INDEX NAME)



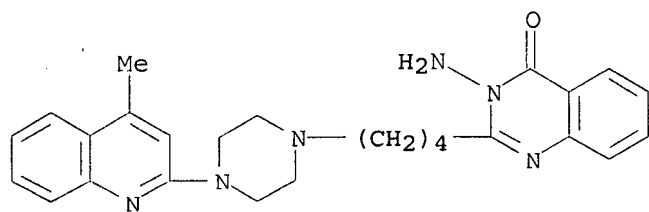
RN 864385-97-7 CAPLUS

CN 4(3H)-Quinazolinone, 3-amino-2-[4-[4-(2-quinolinyl)-1-piperazinyl]butyl]- (CA INDEX NAME)



RN 864385-98-8 CAPLUS

CN 4(3H)-Quinazolinone, 3-amino-2-[4-[4-(4-methyl-2-quinolinyl)-1-piperazinyl]butyl]- (CA INDEX NAME)

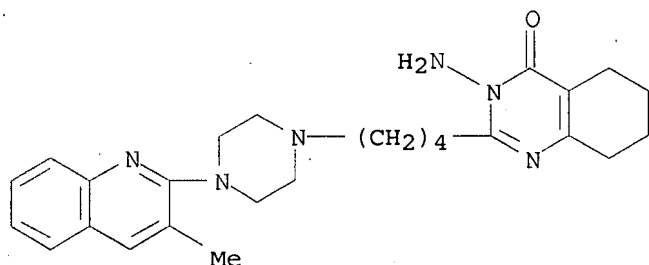




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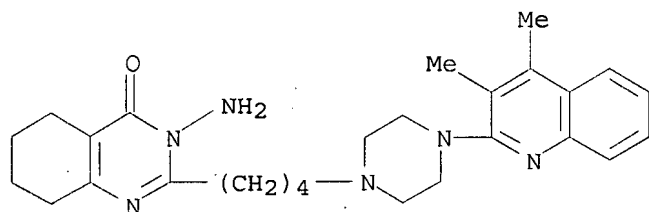
RN 864385-99-9 CAPLUS

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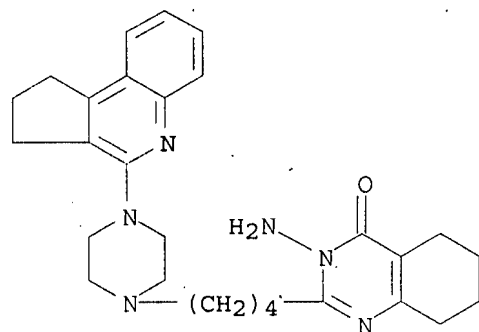
RN 864386-00-5 CAPLUS

CN 4(3H)-Quinazolinone, 3-amino-2-[4-[4-(3,4-dimethyl-2-quinolinyl)-1-piperazinyl]butyl]-5,6,7,8-tetrahydro- (CA INDEX NAME)



RN 864386-01-6 CAPLUS

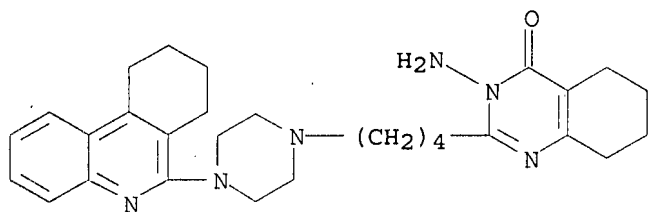
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RN 864386-02-7 CAPLUS

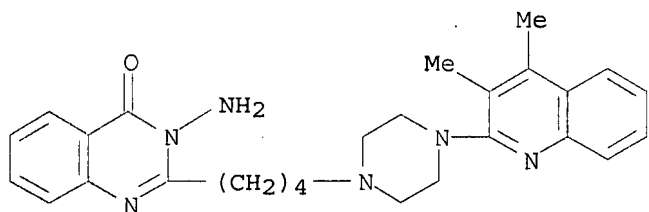
CN 4(3H)-Quinazolinone, 3-amino-5,6,7,8-tetrahydro-2-[4-[4-(7,8,9,10-tetrahydro-6-phenanthridinyl)-1-piperazinyl]butyl]- (CA INDEX NAME)

10/513699



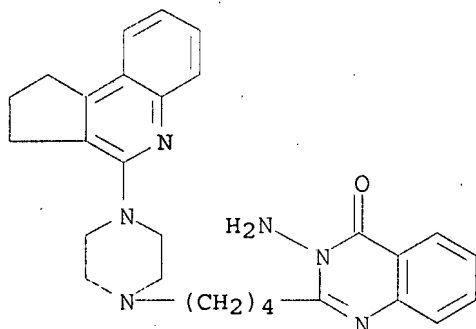
RN 864386-03-8 CAPLUS

CN 4(3H)-Quinazolinone, 3-amino-2-[4-[4-(3,4-dimethyl-2-quinolinyl)-1-piperazinyl]butyl]- (CA INDEX NAME)



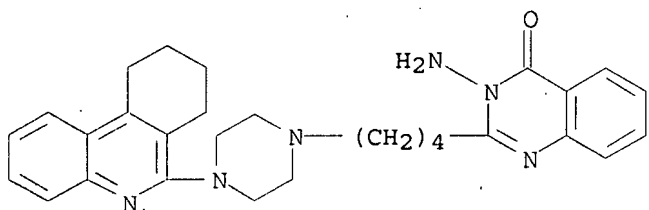
RN 864386-04-9 CAPLUS

CN 4(3H)-Quinazolinone, 3-amino-2-[4-[4-(2,3-dihydro-1H-cyclopenta[c]quinolin-4-yl)-1-piperazinyl]butyl]- (CA INDEX NAME)



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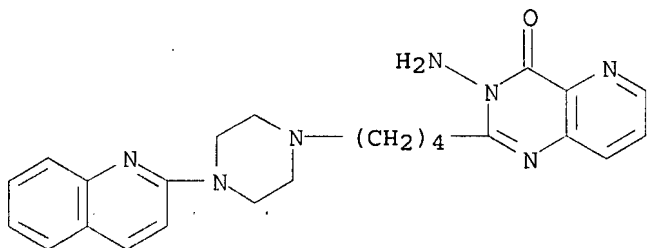
CN 4(3H)-Quinazolinone, 3-amino-2-[4-[4-(7,8,9,10-tetrahydro-6-phenanthridinyl)-1-piperazinyl]butyl]- (CA INDEX NAME)



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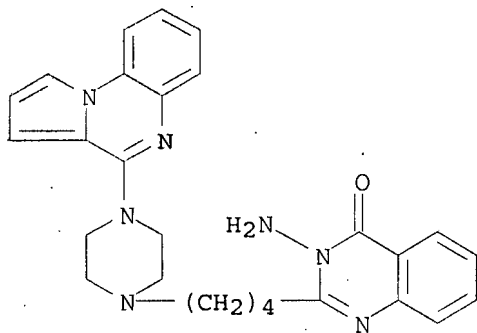
RN 864386-06-1 CAPLUS

CN Pyrido[3,2-d]pyrimidin-4(3H)-one, 3-amino-2-[4-[4-(2-quinolinyl)-1-piperazinyl]butyl]- (CA INDEX NAME)



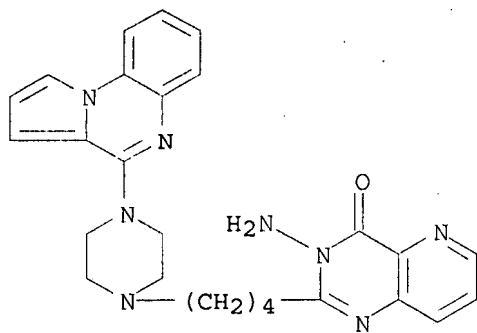
RN 864386-07-2 CAPLUS

CN 4(3H)-Quinazolinone, 3-amino-2-[4-(4-pyrrolo[1,2-a]quinoxalin-4-yl-1-piperazinyl)butyl]- (CA INDEX NAME)



RN 864386-08-3 CAPLUS

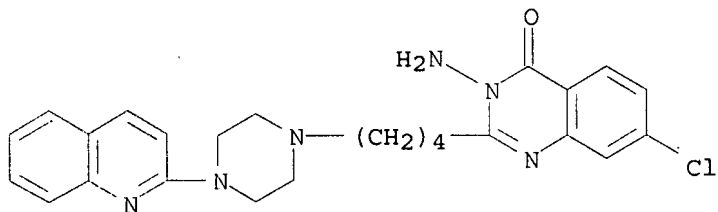
CN Pyrido[3,2-d]pyrimidin-4(3H)-one, 3-amino-2-[4-(4-pyrrolo[1,2-a]quinoxalin-4-yl-1-piperazinyl)butyl]- (CA INDEX NAME)



RN 864386-09-4 CAPLUS

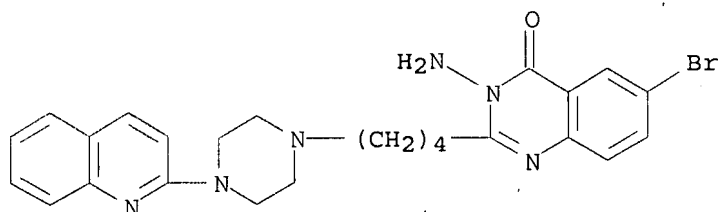
CN 4(3H)-Quinazolinone, 3-amino-7-chloro-2-[4-[4-(2-quinolinyl)-1-piperazinyl]butyl]- (CA INDEX NAME)

10/513699



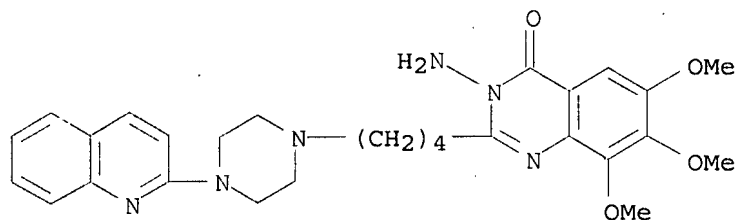
RN 864386-10-7 CAPLUS

CN 4(3H)-Quinazolinone, 3-amino-6-bromo-2-[4-[4-(2-quinolinyl)-1-piperazinyl]butyl]- (CA INDEX NAME)



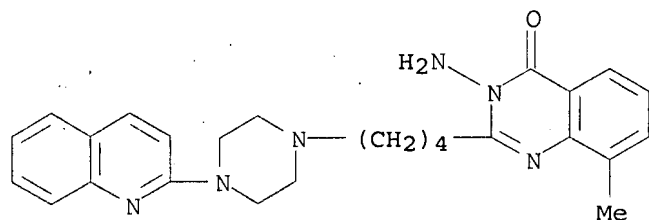
RN 864386-11-8 CAPLUS

CN 4(3H)-Quinazolinone, 3-amino-6,7,8-trimethoxy-2-[4-[4-(2-quinolinyl)-1-piperazinyl]butyl]- (CA INDEX NAME)



RN 864386-13-0 CAPLUS

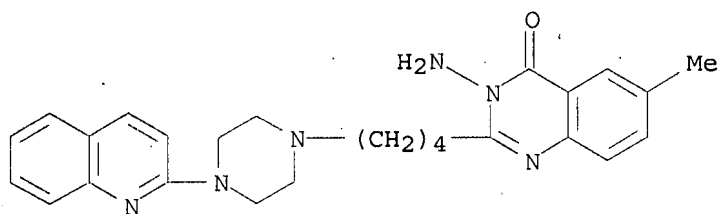
CN 4(3H)-Quinazolinone, 3-amino-8-methyl-2-[4-[4-(2-quinolinyl)-1-piperazinyl]butyl]- (CA INDEX NAME)



RN 864386-14-1 CAPLUS

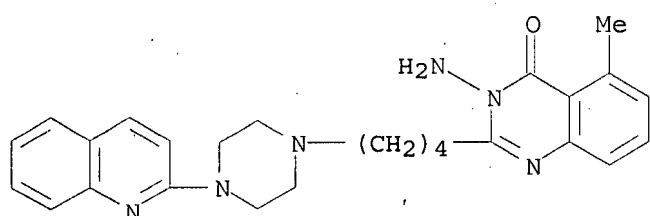
CN 4(3H)-Quinazolinone, 3-amino-6-methyl-2-[4-[4-(2-quinolinyl)-1-piperazinyl]butyl]- (CA INDEX NAME)

10/513699



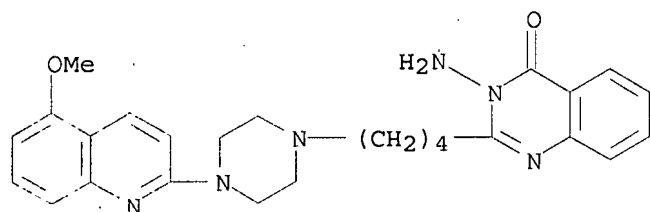
RN 864386-15-2 CAPLUS

CN 4(3H)-Quinazolinone, 3-amino-5-methyl-2-[4-[4-(2-quinolinyl)-1-piperazinyl]butyl]- (CA INDEX NAME)



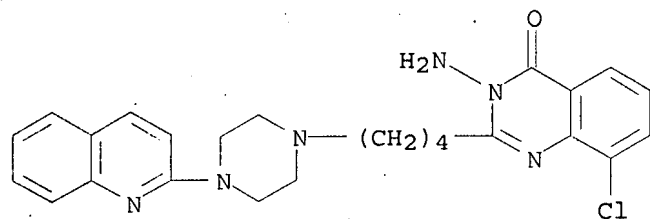
RN 864386-16-3 CAPLUS

CN 4(3H)-Quinazolinone, 3-amino-2-[4-[4-(5-methoxy-2-quinolinyl)-1-piperazinyl]butyl]- (CA INDEX NAME)



RN 864386-18-5 CAPLUS

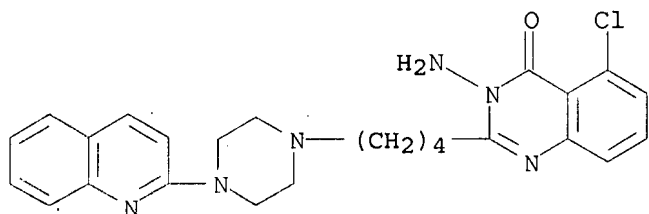
CN 4(3H)-Quinazolinone, 3-amino-8-chloro-2-[4-[4-(2-quinolinyl)-1-piperazinyl]butyl]- (CA INDEX NAME)



RN 864386-19-6 CAPLUS

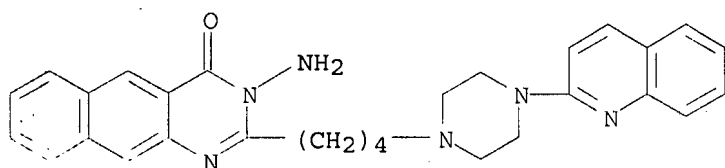
CN 4(3H)-Quinazolinone, 3-amino-5-chloro-2-[4-[4-(2-quinolinyl)-1-piperazinyl]butyl]- (CA INDEX NAME)

10/513699



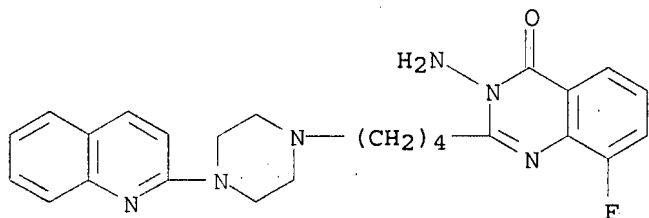
RN 864386-20-9 CAPLUS

CN Benzo[g]quinazolin-4(3H)-one, 3-amino-2-[4-[4-(2-quinolinyl)-1-piperazinyl]butyl] - (CA INDEX NAME)



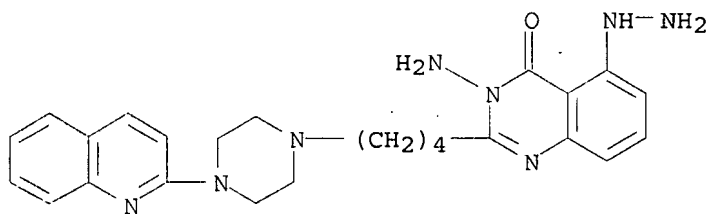
RN 864386-21-0 CAPLUS

CN 4(3H)-Quinazolinone, 3-amino-8-fluoro-2-[4-[4-(2-quinolinyl)-1-piperazinyl]butyl] - (CA INDEX NAME)



RN 864386-22-1 CAPLUS

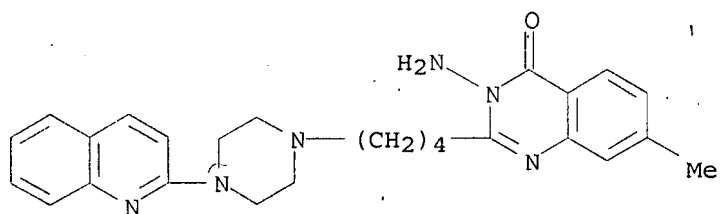
CN 4(3H)-Quinazolinone, 3-amino-5-hydrazino-2-[4-[4-(2-quinolinyl)-1-piperazinyl]butyl] - (9CI) (CA INDEX NAME)



RN 864386-23-2 CAPLUS

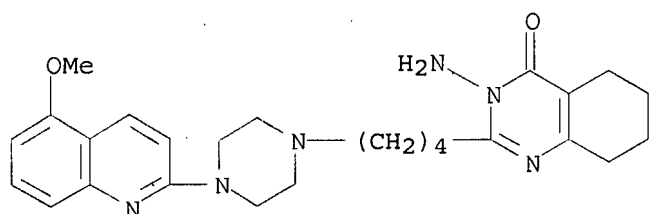
CN 4(3H)-Quinazolinone, 3-amino-7-methyl-2-[4-[4-(2-quinolinyl)-1-piperazinyl]butyl] - (CA INDEX NAME)

10/513699



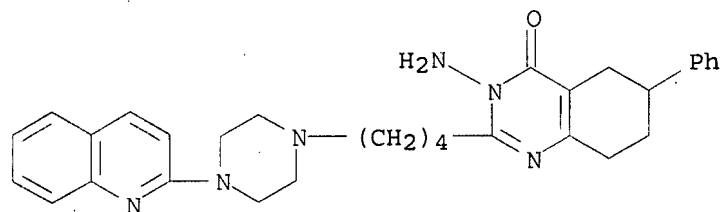
RN 864386-25-4 CAPLUS

CN 4(3H)-Quinazolinone, 3-amino-5,6,7,8-tetrahydro-2-[4-[4-(5-methoxy-2-quinolinyl)-1-piperazinyl]butyl]- (CA INDEX NAME)



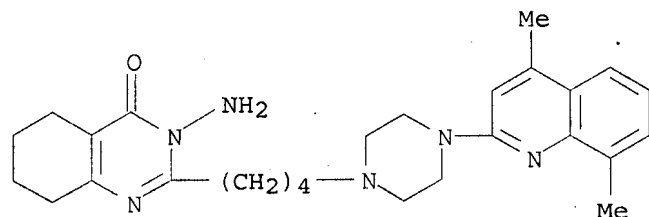
RN 864386-26-5 CAPLUS

CN 4(3H)-Quinazolinone, 3-amino-5,6,7,8-tetrahydro-6-phenyl-2-[4-[4-(2-quinolinyl)-1-piperazinyl]butyl]- (CA INDEX NAME)



RN 864386-27-6 CAPLUS

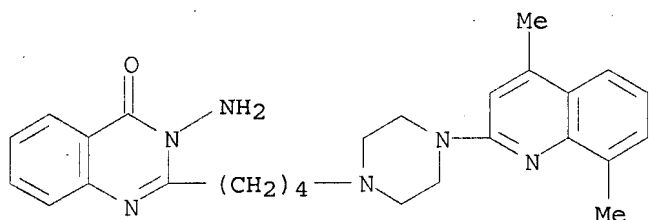
CN 4(3H)-Quinazolinone, 3-amino-2-[4-[4-(4,8-dimethyl-2-quinolinyl)-1-piperazinyl]butyl]-5,6,7,8-tetrahydro- (CA INDEX NAME)



RN 864386-28-7 CAPLUS

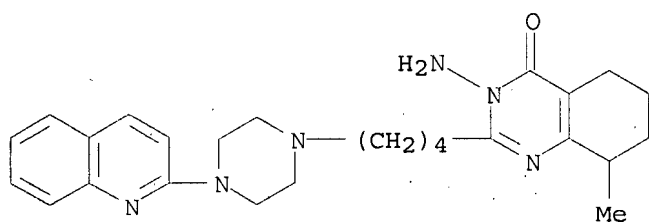
CN 4(3H)-Quinazolinone, 3-amino-2-[4-[4-(4,8-dimethyl-2-quinolinyl)-1-piperazinyl]butyl]- (CA INDEX NAME)

10/513699



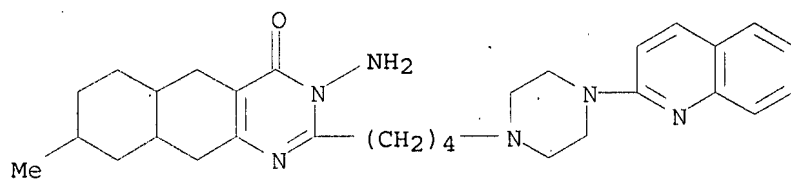
RN 864386-30-1 CAPLUS

CN 4(3H)-Quinazolinone, 3-amino-5,6,7,8-tetrahydro-8-methyl-2-[4-[4-(2-quinolinyl)-1-piperazinyl]butyl]- (CA INDEX NAME)



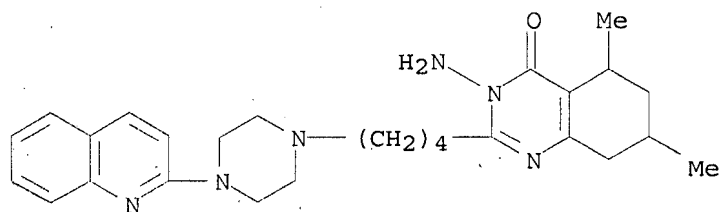
RN 864386-31-2 CAPLUS

CN Benzo[g]quinazolin-4(3H)-one, 3-amino-5,5a,6,7,8,9,9a,10-octahydro-8-methyl-2-[4-[4-(2-quinolinyl)-1-piperazinyl]butyl]- (CA INDEX NAME)



RN 864386-32-3 CAPLUS

CN 4(3H)-Quinazolinone, 3-amino-5,6,7,8-tetrahydro-5,7-dimethyl-2-[4-[4-(2-quinolinyl)-1-piperazinyl]butyl]- (CA INDEX NAME)

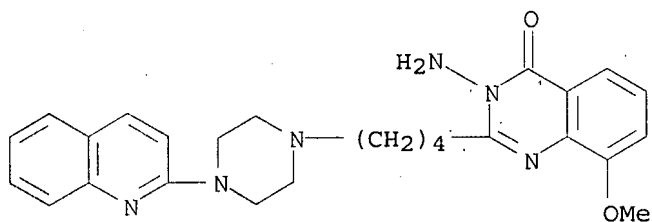


RN 864386-34-5 CAPLUS

CN 4(3H)-Quinazolinone, 3-amino-8-methoxy-2-[4-[4-(2-quinolinyl)-1-piperazinyl]butyl]- (CA INDEX NAME)

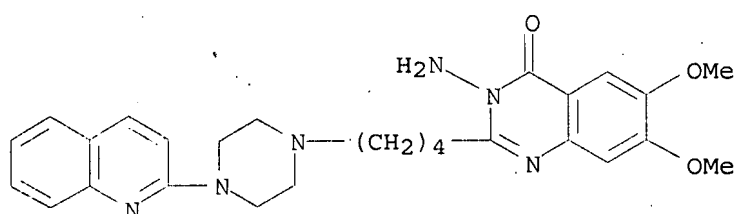


10/513699



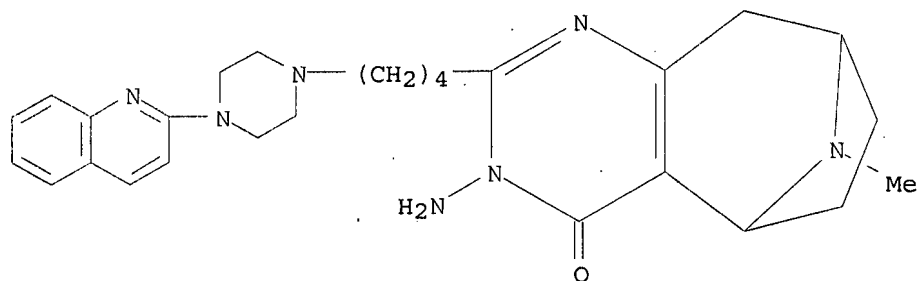
RN 864386-35-6 CAPLUS

CN 4(3H)-Quinazolinone, 3-amino-6,7-dimethoxy-2-[4-[4-(2-quinolinyl)-1-piperazinyl]butyl]- (CA INDEX NAME)



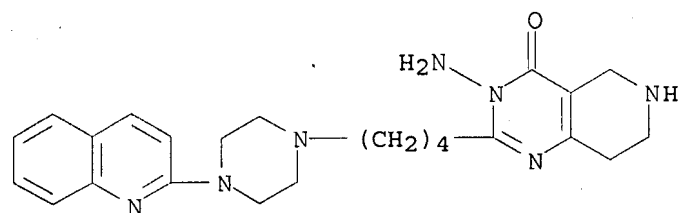
RN 864386-37-8 CAPLUS

CN 5,8-Imino-4H-cycloheptapyrimidin-4-one, 3-amino-3,5,6,7,8,9-hexahydro-10-methyl-2-[4-[4-(2-quinolinyl)-1-piperazinyl]butyl]- (9CI) (CA INDEX NAME)



RN 864386-38-9 CAPLUS

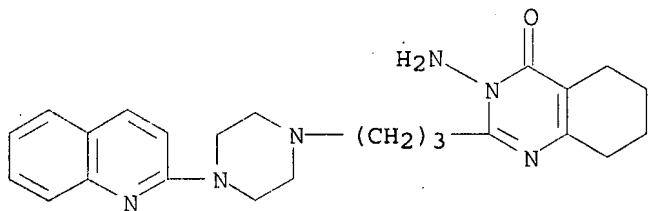
CN Pyrido[4,3-d]pyrimidin-4(3H)-one, 3-amino-5,6,7,8-tetrahydro-2-[4-[4-(2-quinolinyl)-1-piperazinyl]butyl]- (CA INDEX NAME)



RN 864386-39-0 CAPLUS

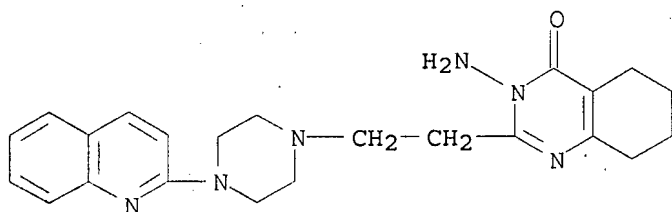
10/513699

CN 4(3H)-Quinazolinone, 3-amino-5,6,7,8-tetrahydro-2-[3-[4-(2-quinolinyl)-1-piperazinyl]propyl]- (CA INDEX NAME)



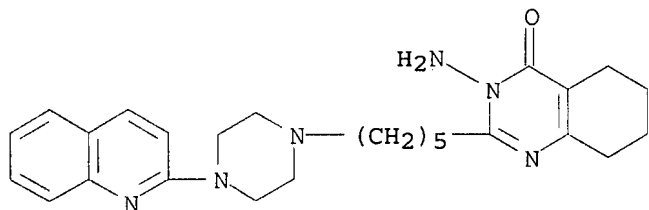
RN 864386-40-3 CAPLUS

CN 4(3H)-Quinazolinone, 3-amino-5,6,7,8-tetrahydro-2-[2-[4-(2-quinolinyl)-1-piperazinyl]ethyl]- (CA INDEX NAME)



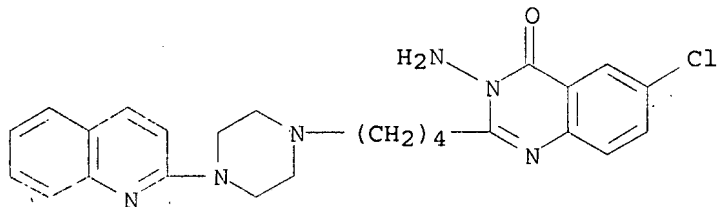
RN 864386-41-4 CAPLUS

CN 4(3H)-Quinazolinone, 3-amino-5,6,7,8-tetrahydro-2-[5-[4-(2-quinolinyl)-1-piperazinyl]pentyl]- (CA INDEX NAME)



RN 864386-45-8 CAPLUS

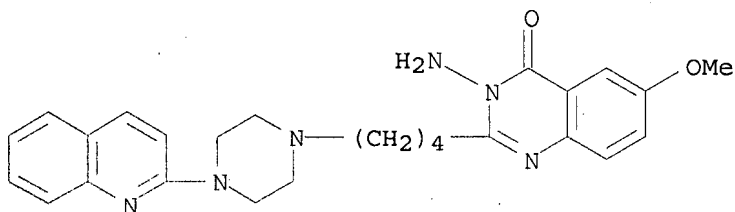
CN 4(3H)-Quinazolinone, 3-amino-6-chloro-2-[4-[4-(2-quinolinyl)-1-piperazinyl]butyl]- (CA INDEX NAME)



10/513699

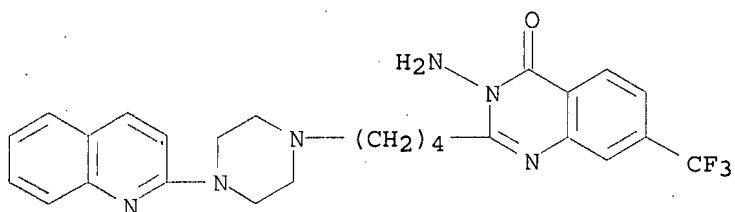
RN 864386-46-9 CAPLUS

CN 4(3H)-Quinazolinone, 3-amino-6-methoxy-2-[4-[4-(2-quinolinyl)-1-piperazinyl]butyl]- (CA INDEX NAME)



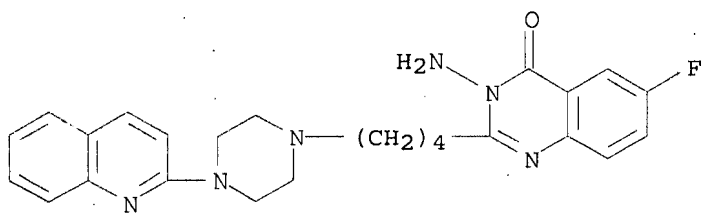
RN 864386-47-0 CAPLUS

CN 4(3H)-Quinazolinone, 3-amino-2-[4-[4-(2-quinolinyl)-1-piperazinyl]butyl]-7-(trifluoromethyl)- (CA INDEX NAME)



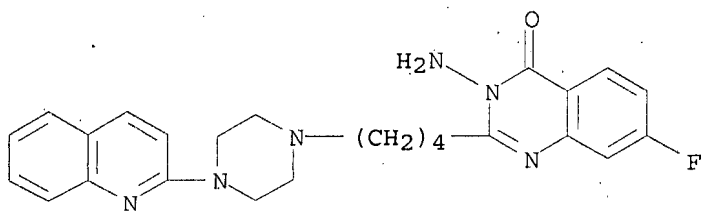
RN 864386-49-2 CAPLUS

CN 4(3H)-Quinazolinone, 3-amino-6-fluoro-2-[4-[4-(2-quinolinyl)-1-piperazinyl]butyl]- (CA INDEX NAME)



RN 864386-50-5 CAPLUS

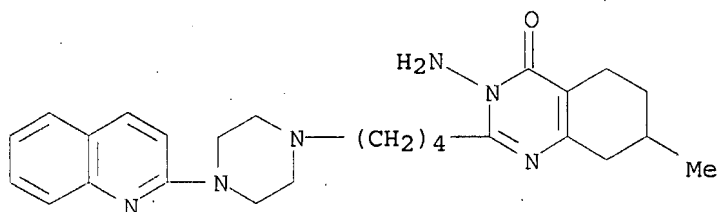
CN 4(3H)-Quinazolinone, 3-amino-7-fluoro-2-[4-[4-(2-quinolinyl)-1-piperazinyl]butyl]- (CA INDEX NAME)



10/513699

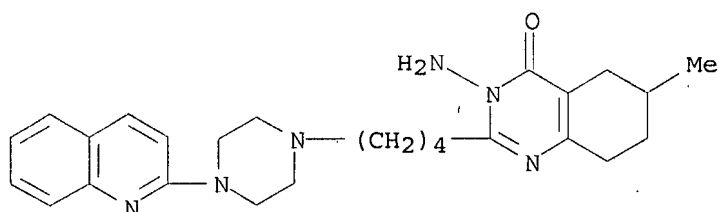
RN 864386-52-7 CAPLUS

CN 4(3H)-Quinazolinone, 3-amino-5,6,7,8-tetrahydro-7-methyl-2-[4-[4-(2-quinolinyl)-1-piperazinyl]butyl]- (CA INDEX NAME)



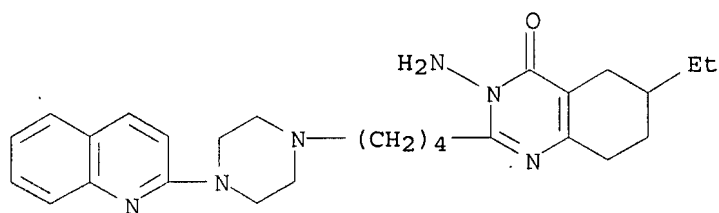
RN 864386-53-8 CAPLUS

CN 4(3H)-Quinazolinone, 3-amino-5,6,7,8-tetrahydro-6-methyl-2-[4-[4-(2-quinolinyl)-1-piperazinyl]butyl]- (CA INDEX NAME)



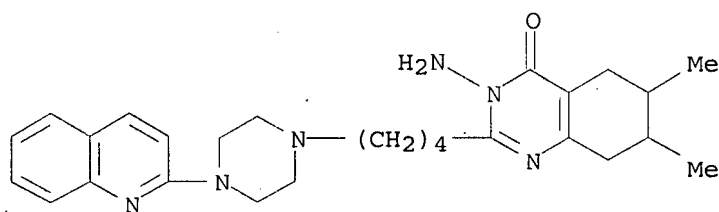
RN 864386-54-9 CAPLUS

CN 4(3H)-Quinazolinone, 3-amino-6-ethyl-5,6,7,8-tetrahydro-2-[4-[4-(2-quinolinyl)-1-piperazinyl]butyl]- (CA INDEX NAME)



RN 864386-55-0 CAPLUS

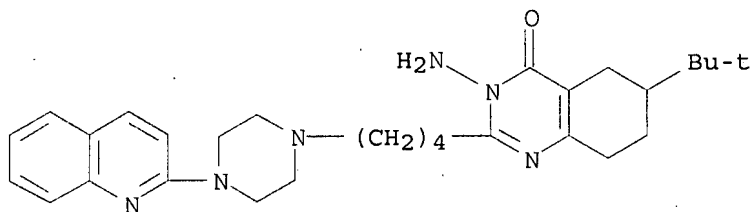
CN 4(3H)-Quinazolinone, 3-amino-5,6,7,8-tetrahydro-6,7-dimethyl-2-[4-[4-(2-quinolinyl)-1-piperazinyl]butyl]- (CA INDEX NAME)



10/513699

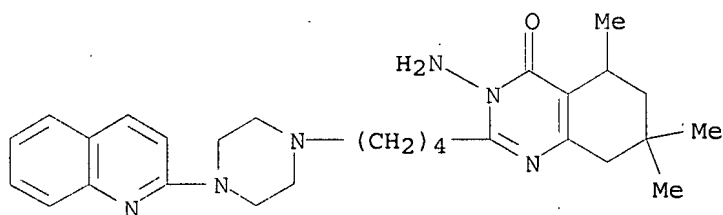
RN 864386-56-1 CAPLUS

CN 4(3H)-Quinazolinone, 3-amino-6-(1,1-dimethylethyl)-5,6,7,8-tetrahydro-2-[4-[4-(2-quinolinyl)-1-piperazinyl]butyl]- (CA INDEX NAME)



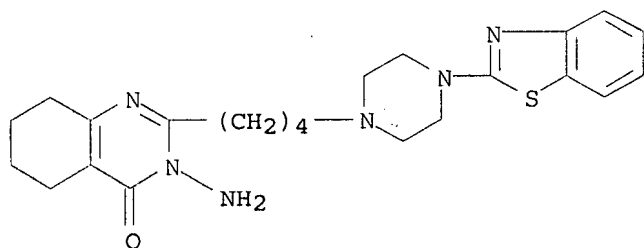
RN 864386-57-2 CAPLUS

CN 4(3H)-Quinazolinone, 3-amino-5,6,7,8-tetrahydro-5,7,7-trimethyl-2-[4-[4-(2-quinolinyl)-1-piperazinyl]butyl]- (CA INDEX NAME)



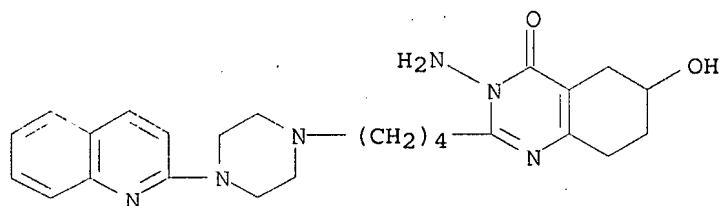
RN 864386-58-3 CAPLUS

CN 4(3H)-Quinazolinone, 3-amino-2-[4-[4-(2-benzothiazolyl)-1-piperazinyl]butyl]-5,6,7,8-tetrahydro- (CA INDEX NAME)



RN 864386-63-0 CAPLUS

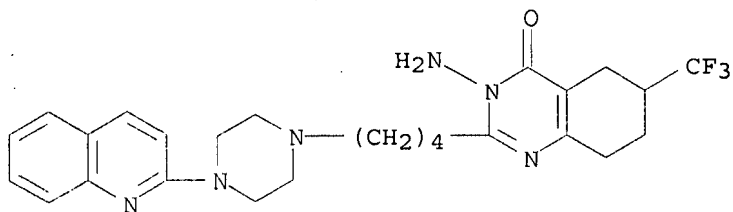
CN 4(3H)-Quinazolinone, 3-amino-5,6,7,8-tetrahydro-6-hydroxy-2-[4-[4-(2-quinolinyl)-1-piperazinyl]butyl]- (CA INDEX NAME)



10/513699

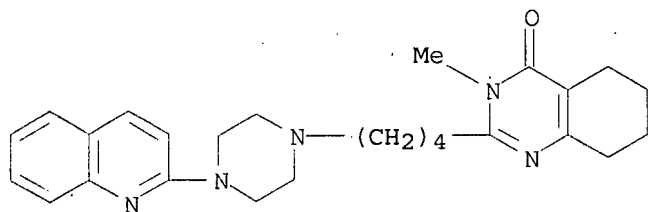
RN 864386-64-1 CAPLUS

CN 4(3H)-Quinazolinone, 3-amino-5,6,7,8-tetrahydro-2-[4-[4-(2-quinolinyl)-1-piperazinyl]butyl]-6-(trifluoromethyl)- (CA INDEX NAME)



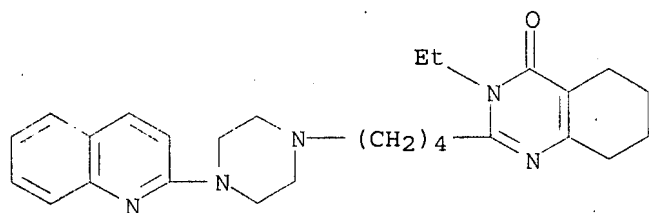
RN 864386-76-5 CAPLUS

CN 4(3H)-Quinazolinone, 5,6,7,8-tetrahydro-3-methyl-2-[4-[4-(2-quinolinyl)-1-piperazinyl]butyl]- (CA INDEX NAME)



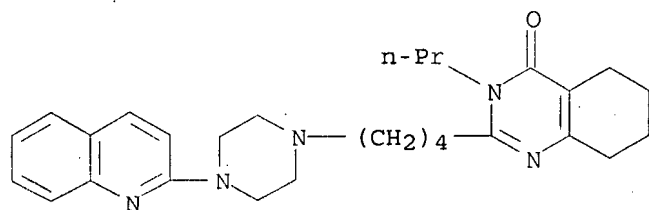
RN 864386-77-6 CAPLUS

CN 4(3H)-Quinazolinone, 3-ethyl-5,6,7,8-tetrahydro-2-[4-[4-(2-quinolinyl)-1-piperazinyl]butyl]- (CA INDEX NAME)



RN 864386-78-7 CAPLUS

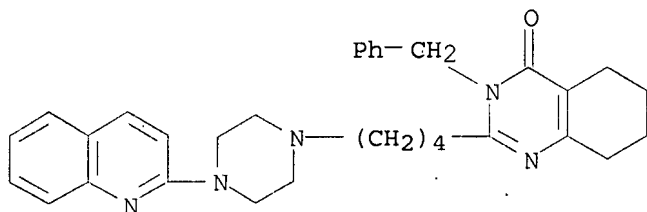
CN 4(3H)-Quinazolinone, 5,6,7,8-tetrahydro-3-propyl-2-[4-[4-(2-quinolinyl)-1-piperazinyl]butyl]- (CA INDEX NAME)



10/513699

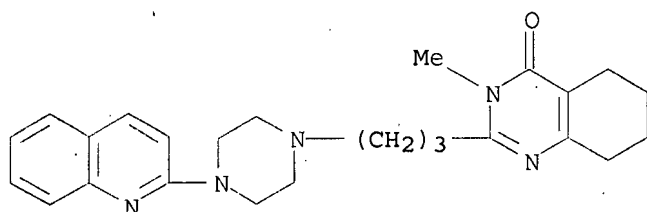
RN 864386-79-8 CAPLUS

CN 4(3H)-Quinazolinone, 5,6,7,8-tetrahydro-3-(phenylmethyl)-2-[4-[4-(2-quinolinyl)-1-piperazinyl]butyl]- (CA INDEX NAME)



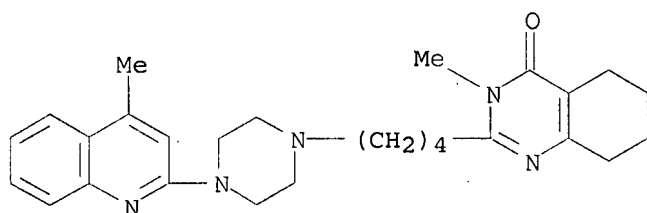
RN 864386-80-1 CAPLUS

CN 4(3H)-Quinazolinone, 5,6,7,8-tetrahydro-3-methyl-2-[3-[4-(2-quinolinyl)-1-piperazinyl]propyl]- (CA INDEX NAME)



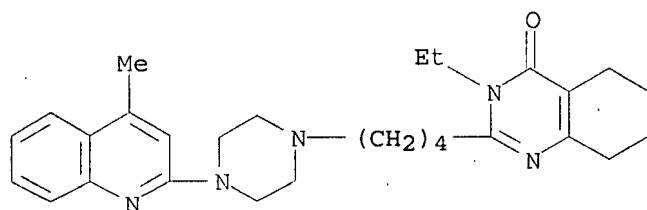
RN 864386-81-2 CAPLUS

CN 4(3H)-Quinazolinone, 5,6,7,8-tetrahydro-3-methyl-2-[4-[4-(4-methyl-2-quinolinyl)-1-piperazinyl]butyl]- (CA INDEX NAME)



RN 864386-82-3 CAPLUS

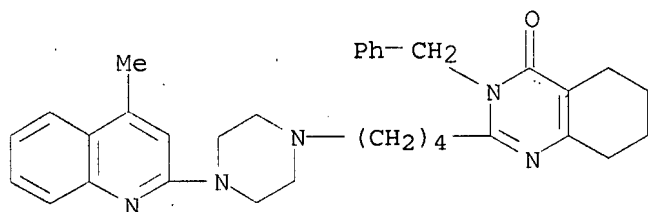
CN 4(3H)-Quinazolinone, 3-ethyl-5,6,7,8-tetrahydro-2-[4-[4-(4-methyl-2-quinolinyl)-1-piperazinyl]butyl]- (CA INDEX NAME)



10/513699

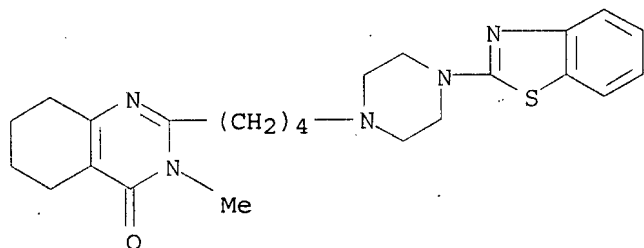
RN 864386-83-4 CAPLUS

CN 4(3H)-Quinazolinone, 5,6,7,8-tetrahydro-2-[4-[4-(4-methyl-2-quinolinyl)-1-piperazinyl]butyl]-3-(phenylmethyl)- (CA INDEX NAME)



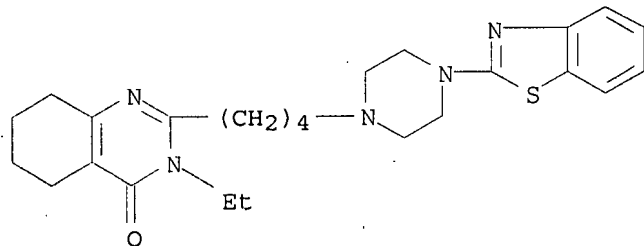
RN 864386-84-5 CAPLUS

CN 4(3H)-Quinazolinone, 2-[4-[4-(2-benzothiazolyl)-1-piperazinyl]butyl]-5,6,7,8-tetrahydro-3-methyl- (CA INDEX NAME)



RN 864386-85-6 CAPLUS

CN 4(3H)-Quinazolinone, 2-[4-[4-(2-benzothiazolyl)-1-piperazinyl]butyl]-3-ethyl-5,6,7,8-tetrahydro- (CA INDEX NAME)

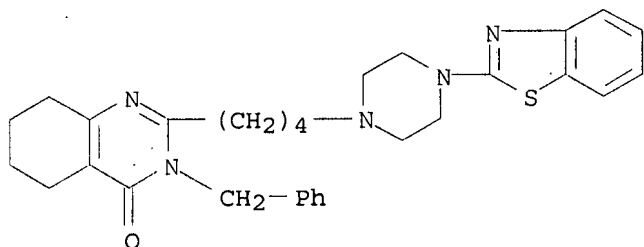


RN 864386-86-7 CAPLUS

CN 4(3H)-Quinazolinone, 2-[4-[4-(2-benzothiazolyl)-1-piperazinyl]butyl]-5,6,7,8-tetrahydro-3-(phenylmethyl)- (CA INDEX NAME)

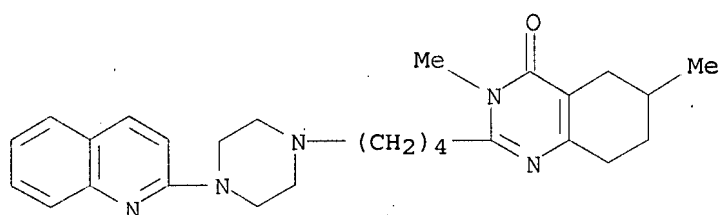


10/513699



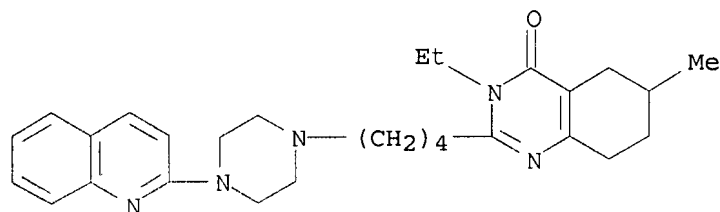
RN 864386-87-8 CAPLUS

CN 4(3H)-Quinazolinone, 5,6,7,8-tetrahydro-3,6-dimethyl-2-[4-[4-(2-quinolinyl)-1-piperazinyl]butyl]- (CA INDEX NAME)



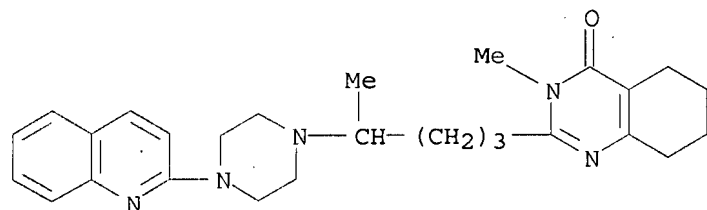
RN 864386-88-9 CAPLUS

CN 4(3H)-Quinazolinone, 3-ethyl-5,6,7,8-tetrahydro-6-methyl-2-[4-[4-(2-quinolinyl)-1-piperazinyl]butyl]- (CA INDEX NAME)



RN 864386-89-0 CAPLUS

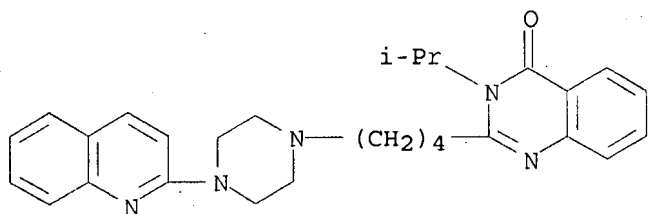
CN 4(3H)-Quinazolinone, 5,6,7,8-tetrahydro-3-methyl-2-[4-[4-(2-quinolinyl)-1-piperazinyl]pentyl]- (CA INDEX NAME)



RN 864386-90-3 CAPLUS

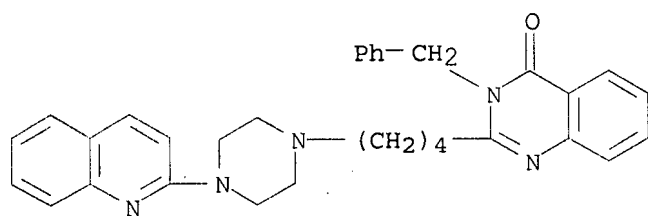
CN 4(3H)-Quinazolinone, 3-(1-methylethyl)-2-[4-[4-(2-quinolinyl)-1-piperazinyl]butyl]- (CA INDEX NAME).

10/513699



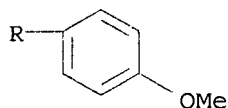
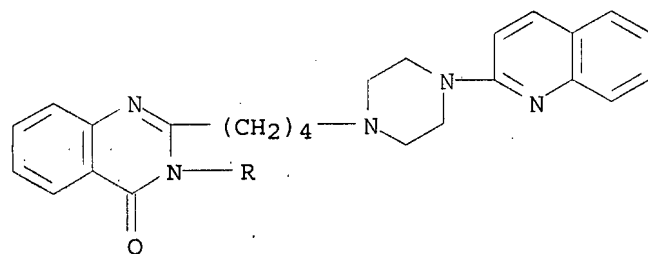
RN 864386-91-4 CAPLUS

CN 4(3H)-Quinazolinone, 3-(phenylmethyl)-2-[4-[4-(2-quinolinyl)-1-piperazinyl]butyl]- (CA INDEX NAME)



RN 864386-92-5 CAPLUS

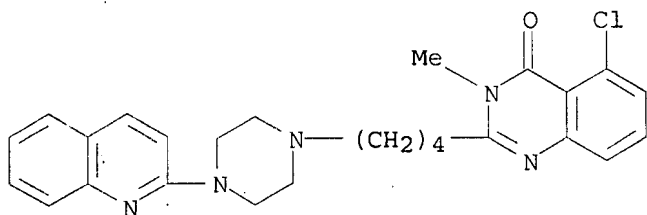
CN 4(3H)-Quinazolinone, 3-(4-methoxyphenyl)-2-[4-[4-(2-quinolinyl)-1-piperazinyl]butyl]- (CA INDEX NAME)



RN 864386-93-6 CAPLUS

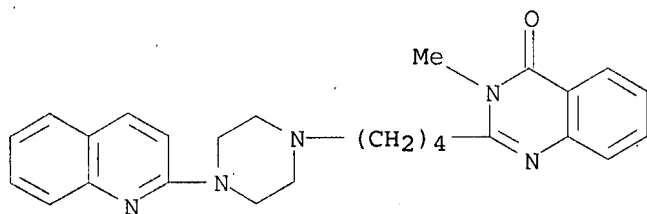
CN 4(3H)-Quinazolinone, 5-chloro-3-methyl-2-[4-[4-(2-quinolinyl)-1-piperazinyl]butyl]- (CA INDEX NAME)

10/513699



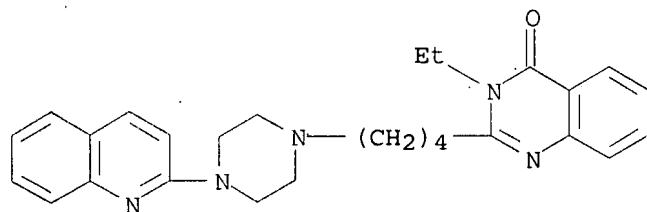
RN 864386-95-8 CAPLUS

CN 4(3H)-Quinazolinone, 3-methyl-2-[4-[4-(2-quinolinyl)-1-piperazinyl]butyl] -  
(CA INDEX NAME)



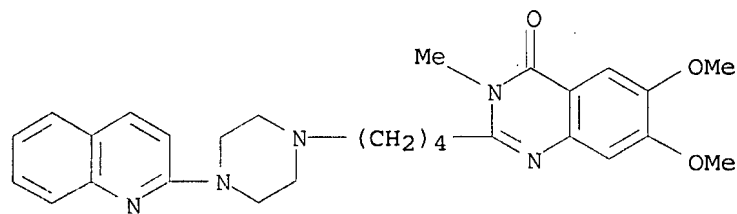
RN 864386-96-9 CAPLUS

CN 4(3H)-Quinazolinone, 3-ethyl-2-[4-[4-(2-quinolinyl)-1-piperazinyl]butyl] -  
(CA INDEX NAME)



RN 864386-97-0 CAPLUS

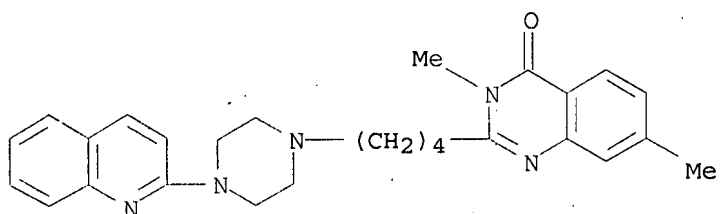
CN 4(3H)-Quinazolinone, 6,7-dimethoxy-3-methyl-2-[4-[4-(2-quinolinyl)-1-piperazinyl]butyl] -  
(CA INDEX NAME)



RN 864386-99-2 CAPLUS

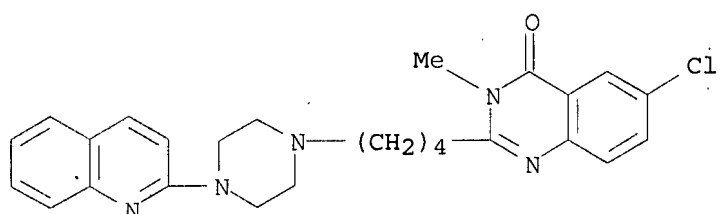
CN 4(3H)-Quinazolinone, 3,7-dimethyl-2-[4-[4-(2-quinolinyl)-1-piperazinyl]butyl] -  
(CA INDEX NAME)

10/513699



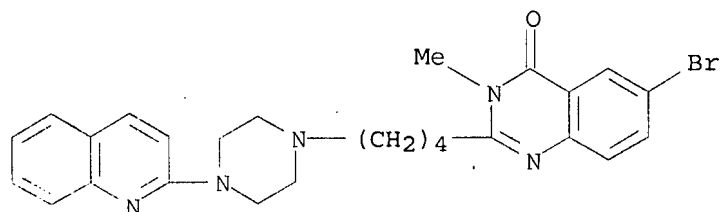
RN 864387-00-8 CAPLUS

CN 4(3H)-Quinazolinone, 6-chloro-3-methyl-2-[4-[4-(2-quinolinyl)-1-piperazinyl]butyl]- (CA INDEX NAME)



RN 864387-01-9 CAPLUS

CN 4(3H)-Quinazolinone, 6-bromo-3-methyl-2-[4-[4-(2-quinolinyl)-1-piperazinyl]butyl]- (CA INDEX NAME)



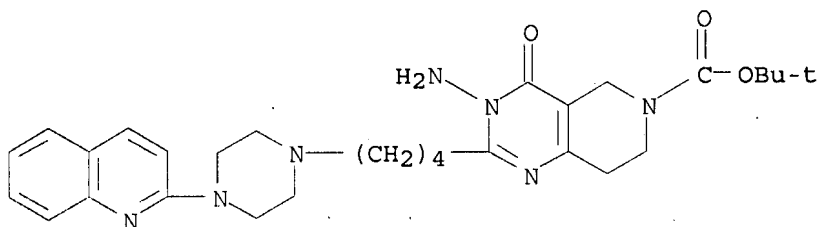
IT 864387-19-9P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation of pyrimidine derivs. as 5-HT3 receptor antagonists having agonistic activity on 5-HT1A for treatment of anxiety, depression, etc.)

RN 864387-19-9 CAPLUS

CN Pyrido[4,3-d]pyrimidine-6(4H)-carboxylic acid, 3-amino-3,5,7,8-tetrahydro-4-oxo-2-[4-[4-(2-quinolinyl)-1-piperazinyl]butyl]-, 1,1-dimethylethyl ester (CA INDEX NAME)



REFERENCE COUNT: 11 THERE ARE 11 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2002:465983 CAPLUS

DOCUMENT NUMBER: 137:47214

TITLE: Preparation of 2-substituted-4(3H)-quinazolinone derivatives as PARP inhibitors

INVENTOR(S): Matsuoka, Nobuya; Iwashita, Akinori; Yamazaki, Shunji; Miyake, Hiroshi; Ohkubo, Mitsuru; Kamijo, Kazunori; Nakanishi, Isao; Hattori, Kouji; Kido, Yoshiyuki; Ishida, Junya; Yamamoto, Hirofumi

PATENT ASSIGNEE(S): Fujisawa Pharmaceutical Co., Ltd., Japan

SOURCE: PCT Int. Appl., 91 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

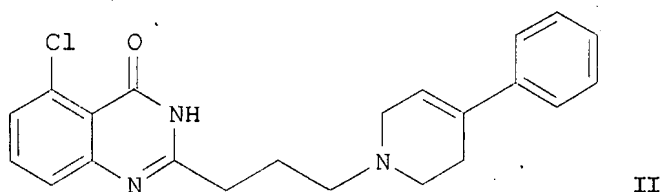
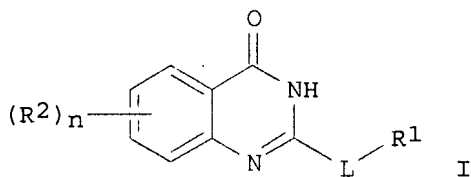
FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

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WO 2002048117	A1	20020620	WO 2001-JP10601	20011205
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
CA 2431406	A1	20020620	CA 2001-2431406	20011205
AU 2002021047	A5	20020624	AU 2002-21047	20011205
EP 1355888	A1	20031029	EP 2001-270531	20011205
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
JP 2004515544	T	20040527	JP 2002-549648	20011205
US 2004077667	A1	20040422	US 2003-433947	20030609
PRIORITY APPLN. INFO.:			AU 2000-2016	A 20001211
			WO 2001-JP10601	W 20011205

OTHER SOURCE(S): MARPAT 137:47214

GI



AB Title compds. I [ R1 = (un)substituted cyclic amino group(s); R2 = substituent; n = 0-4; L = alkylene, alkenylene] were prepared For instance, 2-amino-6-chlorobenzamide was coupled to 4-pentenoyl chloride (THF, i-PrNEt<sub>2</sub>, 5°C, 30 min) and the product treated with 1N NaOH to afford 2-(3-butenyl)-5-chloro-4(3H)-quinazolinone. This intermediate was oxidatively cleaved (dioxane, OsO<sub>4</sub>, t-BuOH; NaIO<sub>4</sub>) effecting cyclization to 8-chloro-1-hydroxy-2,3-dihydropyrrolo[2,1-b]quinazoline-9(1H)-one isolated as a colorless powder. This was used to alkylate 1,2,3,6-tetrahydro-4-phenylpyridine (CH<sub>3</sub>CN<sub>aq</sub>, HOAc, NaCNBH<sub>3</sub>) to afford II. Selected compds. of the invention had IC<sub>50</sub> < 0.5 μM for poly(ADP-ribose)polymerase (PARP). I are useful for the treatment of NMDA- and NO-induced toxicity, tissue damage resulting from apoptosis, etc.

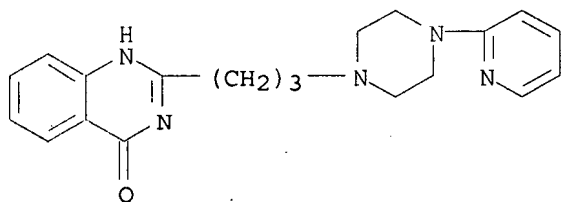
IT 437997-62-1P 437997-63-2P 437997-64-3P  
437997-65-4P 437997-66-5P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(drug; preparation of 2-[ω-substituted(hetero)aryl-alkyl]substituted-4(3H)-quinazolinone derivs.)

RN 437997-62-1 CAPLUS

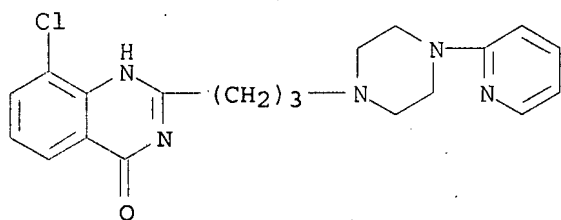
CN 4(1H)-Quinazolinone, 2-[3-[4-(2-pyridinyl)-1-piperazinyl]propyl] - (9CI)  
(CA INDEX NAME)



RN 437997-63-2 CAPLUS

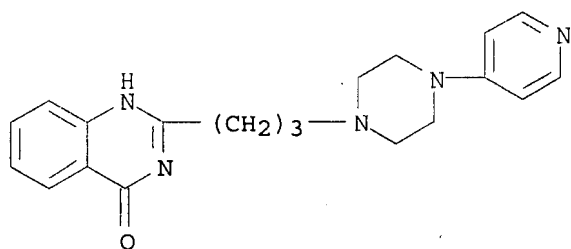
CN 4(1H)-Quinazolinone, 8-chloro-2-[3-[4-(2-pyridinyl)-1-piperazinyl]propyl] - (9CI)  
(CA INDEX NAME)

10/513699



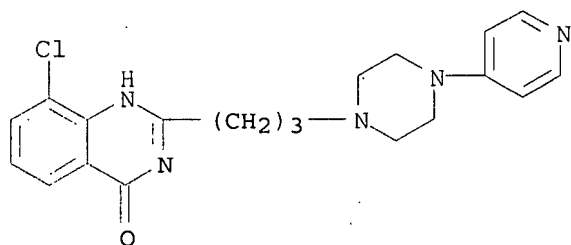
RN 437997-64-3 CAPLUS

4 (1H)-Quinazolinone, 2-[3-[4-(4-pyridinyl)-1-piperazinyl]propyl]- (9CI)  
(CA INDEX NAME)



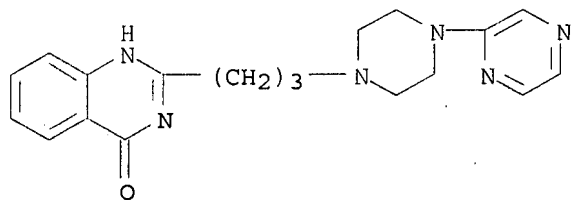
RN 437997-65-4 CAPLUS

CN 4(1H)-Quinazolinone, 8-chloro-2-[3-[4-(4-pyridinyl)-1-piperazinyl]propyl]-  
(9CI) (CA INDEX NAME)



RN 437997-66-5 CAPLUS

CN 4(1H)-Quinazolinone, 2-[3-(4-pyrazinyl-1-piperazinyl)propyl] - (9CI) (CA  
INDEX NAME)



REFERENCE COUNT:

7

THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS  
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

<12/04/2007>

Erich Leese

10/513699

=> file reg

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

23.33

201.34

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE

TOTAL

ENTRY

SESSION

CA SUBSCRIBER PRICE

-2.34

-2.34

FILE 'REGISTRY' ENTERED AT 14:20:22 ON 19 SEP 2007

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STRUCTURE FILE UPDATES: 18 SEP 2007 HIGHEST RN 947490-11-1

DICTIONARY FILE UPDATES: 18 SEP 2007 HIGHEST RN 947490-11-1

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TSCA INFORMATION NOW CURRENT THROUGH June 29, 2007

Please note that search-term pricing does apply when conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stngen/stndoc/properties.html>

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Uploading C:\Program Files\Stnexp\Queries\10590707piperidine.str

L4 STRUCTURE UPLOADED

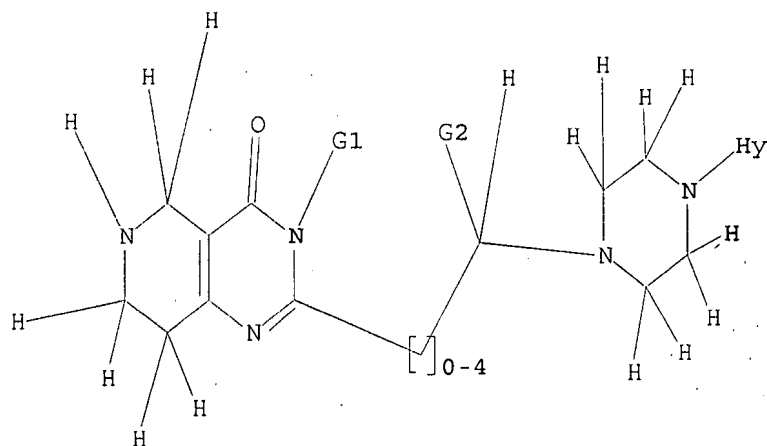
=> d l4

L4 HAS NO ANSWERS

L4 STR



10/513699



G1 H, NH2, Cb, Ak.

G2 C, H, Ak

G3 C, N

Structure attributes must be viewed using STN Express query preparation.

=> s l4 full

FULL SEARCH INITIATED 14:20:48 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 1996 TO ITERATE

100.0% PROCESSED 1996 ITERATIONS

1 ANSWERS

SEARCH TIME: 00.00.01

L5 1 SEA SSS FUL L4

=> file caplus

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

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373.44

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE

TOTAL

ENTRY

SESSION

CA SUBSCRIBER PRICE

0.00

-2.34

FILE 'CAPLUS' ENTERED AT 14:20:55 ON 19 SEP 2007

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<12/04/2007>

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FILE COVERS 1907 - 19 Sep 2007 VOL 147 ISS 13  
FILE LAST UPDATED: 18 Sep 2007 (20070918/ED)

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They are available for your review at:

<http://www.cas.org/infopolicy.html>

=> d ibib abs hitstr

YOU HAVE REQUESTED DATA FROM FILE 'REGISTRY' - CONTINUE? (Y)/N:y

'IBIB' IS NOT A VALID FORMAT FOR FILE 'REGISTRY'  
'ABS' IS NOT A VALID FORMAT FOR FILE 'REGISTRY'  
'HITSTR' IS NOT A VALID FORMAT FOR FILE 'REGISTRY'

The following are valid formats:

Substance information can be displayed by requesting individual  
fields or predefined formats. The predefined substance formats  
are: (RN = CAS Registry Number)

REG - RN  
SAM - Index Name, MF, and structure - no RN  
FIDE - All substance data, except sequence data  
IDE - FIDE, but only 50 names  
SQIDE - IDE, plus sequence data  
SQIDE3 - Same as SQIDE, but 3-letter amino acid codes are used  
SQD - Protein sequence data, includes RN  
SQD3 - Same as SQD, but 3-letter amino acid codes are used  
SQN - Protein sequence name information, includes RN  
  
CALC - Table of calculated properties  
EPROP - Table of experimental properties  
PROP - EPROP and CALC

Any CA File format may be combined with any substance format to  
obtain CA references citing the substance. The substance formats  
must be cited first. The CA File predefined formats are:

ABS -- Abstract  
APPS -- Application and Priority Information  
BIB -- CA Accession Number, plus Bibliographic Data  
CAN -- CA Accession Number  
CBIB -- CA Accession Number, plus Bibliographic Data (compressed)  
IND -- Index Data  
IPC -- International Patent Classification  
PATS -- PI, SO  
STD -- BIB, IPC, and NCL  
  
IABS -- ABS, indented, with text labels  
IBIB -- BIB, indented, with text labels  
ISTD -- STD format, indented  
  
OBIB ----- AN, plus Bibliographic Data (original)  
OIBIB ----- OBIB, indented with text labels  
  
SBIB ----- BIB, no citations

10/513699

SIBIB ----- IBIB, no citations

The ALL format gives FIDE BIB ABS IND RE, plus sequence data when it is available.

The MAX format is the same as ALL.

The IALL format is the same as ALL with BIB ABS and IND indented, with text labels.

For additional information, please consult the following help messages:

HELP DFIELDS -- To see a complete list of individual display fields.

HELP FORMATS -- To see detailed descriptions of the predefined formats.

ENTER DISPLAY FORMAT (IDE):.

L5 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2007 ACS on STN

RN 864386-38-9 REGISTRY

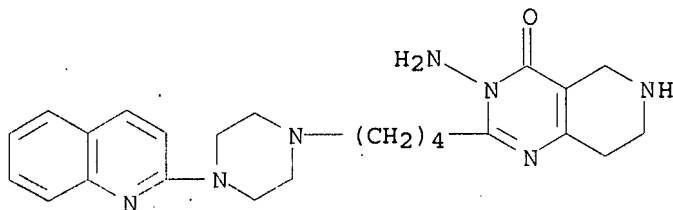
ED Entered STN: 03 Oct 2005

CN Pyrido[4,3-d]pyrimidin-4(3H)-one, 3-amino-5,6,7,8-tetrahydro-2-[4-[4-(2-quinolinyl)-1-piperazinyl]butyl]- (CA INDEX NAME)

MF C24 H31 N7 O

SR CA

LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> s 14 full

REGISTRY INITIATED

Substance data SEARCH and crossover from CAS REGISTRY in progress...

Use DISPLAY HITSTR (or FHITSTR) to directly view retrieved structures.

FULL SEARCH INITIATED 14:21:32 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 1996 TO ITERATE

100.0% PROCESSED 1996 ITERATIONS

1 ANSWERS

SEARCH TIME: 00.00.01

L6

1 SEA SSS FUL L4

<12/04/2007>

Erich Leese

10/513699

L7 1 L6

=> s 17 full

L8 1 L6

=> d ibib abs

L8 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2005:979639 CAPLUS

DOCUMENT NUMBER: 143:286443

TITLE: Preparation of pyrimidine derivatives as 5-HT3  
receptor antagonists having agonistic activity on  
5-HT1A

INVENTOR(S): Sato, Michitaka; Matsui, Teruaki; Asagarasu, Akira;  
Hayashi, Hiroyuki; Araki, Seiichi; Tamaoki, Satoru;  
Takahashi, Nobuyuki; Yamauchi, Yukinao; Yamamoto,  
Yoshiko; Yamamoto, Norio; Ogawa, Chisato

PATENT ASSIGNEE(S): Teikoku Hormone Mfg. Co., Ltd., Japan

SOURCE: PCT Int. Appl., 261 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

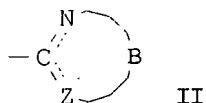
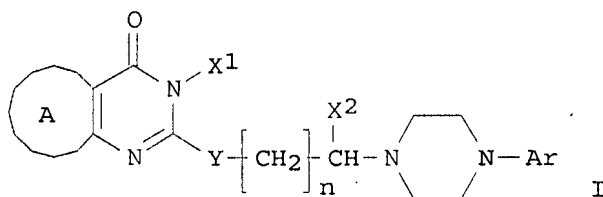
FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

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WO 2005082887	A1	20050909	WO 2005-JP3691	20050225
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RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
AU 2005217320	A1	20050909	AU 2005-217320	20050225
CA 2557541	A1	20050909	CA 2005-2557541	20050225
EP 1724267	A1	20061122	EP 2005-719969	20050225
R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR				
CN 1922171	A	20070228	CN 2005-80005603	20050225
US 2007197551	A1	20070823	US 2006-590707	20060825
PRIORITY APPLN. INFO.:			JP 2004-52040	A 20040226
			JP 2004-322858	A 20041105
			WO 2005-JP3691	W 20050225

OTHER SOURCE(S): MARPAT 143:286443

GI



AB Title compds. I [ring A = carbocyclic group, etc.; X1 = H, amino, etc.; X2 = H, alkyl; Y = bond, etc.; n = 0-4; Ar = optionally substituted II with halo, etc.; Z = O, etc.; B = moiety required for completing mono-, ploy-heterocyclic ring containing N together with N-C-Z; dotted line indicates single, double bond] were prepared. For example, treatment of potassium 3-amino-5,6-dimethyl-4-oxo-3,4-dihydrothieno[2,3-d]pyrimidine-2-thiolate with 2-[4-(3-chloropropyl)piperazin-1-yl]quinoline, e.g., prepared from piperazine in 2 steps, afforded 3-amino-5,6-dimethyl-2-[3-(4-quinolin-2-yl)piperazin-1-yl]propylthio]-3H-thieno[2,3-d]pyrimidin-4-one (III) in 50% yield. In 5-HT<sub>3</sub> receptor affinity assay (in vitro), compound III exhibited the antagonistic activity of 94% at 10<sup>-7</sup> M. Compds. I are claimed useful for the treatment of anxiety, depression, etc. Formulation is given.

REFERENCE COUNT: 11 THERE ARE 11 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> file reg

COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION

FULL ESTIMATED COST

4.24	553.12
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DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE	TOTAL
ENTRY	SESSION

CA SUBSCRIBER PRICE

-0.78	-3.12
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STRUCTURE FILE UPDATES: 18 SEP 2007 HIGHEST RN 947490-11-1

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conducting SmartSELECT searches.

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<http://www.cas.org/support/stngen/stndoc/properties.html>

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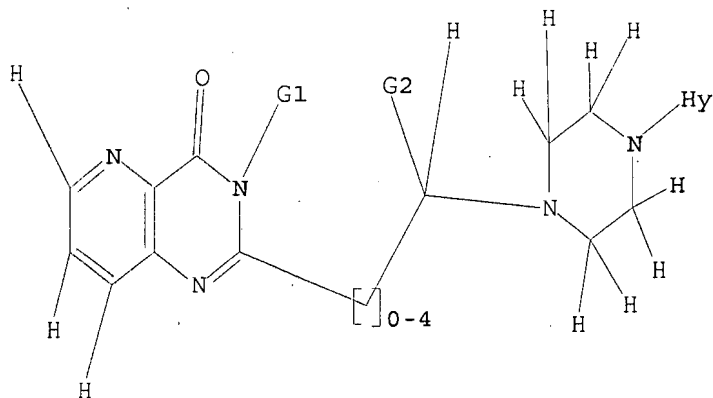
L9 STRUCTURE UPLOADED

=>

=> d 19

L9 HAS NO ANSWERS

L9 STR



G1 H, NH2, Cb, Ak

G2 C, H, Ak

G3 C, N

Structure attributes must be viewed using STN Express query preparation.

=> s 19 full

FULL SEARCH INITIATED 14:40:52 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 218 TO ITERATE

100.0% PROCESSED 218 ITERATIONS

SEARCH TIME: 00.00.01

2 ANSWERS

L10 2 SEA SSS FUL L9

=> file caplus

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

185.15

738.27

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE

TOTAL

ENTRY

SESSION

CA SUBSCRIBER PRICE

0.00

-3.12

<12/04/2007>

Erich Leese

10/513699

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FILE COVERS 1907 - 19 Sep 2007 VOL 147 ISS 13  
FILE LAST UPDATED: 18 Sep 2007 (20070918/ED)

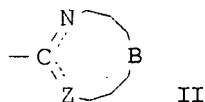
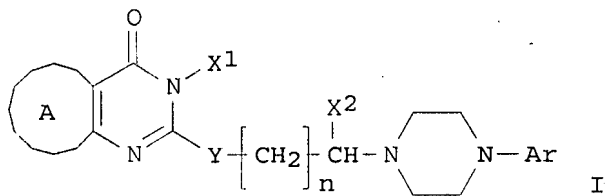
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=> s l10 full  
L11 1 L10

=> d abs bib

L11 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2007 ACS on STN  
GI



AB Title compds. I [ring A = carbocyclic group, etc.; X1 = H, amino, etc.; X2 = H, alkyl; Y = bond, etc.; n = 0-4; Ar = optionally substituted II with halo, etc.; Z = O, etc.; B = moiety required for completing mono-, ploy-heterocyclic ring containing N together with N-C-Z; dotted line indicates single, double bond] were prepared For example, treatment of potassium

10/513699

3-amino-5,6-dimethyl-4-oxo-3,4-dihydrothieno[2,3-d]pyrimidine-2-thiolate with 2-[4-(3-chloropropyl)piperazin-1-yl]quinoline, e.g., prepared from piperazine in 2 steps, afforded 3-amino-5,6-dimethyl-2-[3-(4-quinolin-2-yl)piperazin-1-yl]propylthio]-3H-thieno[2,3-d]pyrimidin-4-one (III) in 50% yield. In 5-HT<sub>3</sub> receptor affinity assay (in vitro), compound III exhibited the antagonistic activity of 94% at 10<sup>-7</sup> M. Compds. I are claimed useful for the treatment of anxiety, depression, etc. Formulation is given.

AN 2005:979639 CAPLUS

DN 143:286443

TI Preparation of pyrimidine derivatives as 5-HT<sub>3</sub> receptor antagonists having agonistic activity on 5-HT<sub>1A</sub>

IN Sato, Michitaka; Matsui, Teruaki; Asagarsu, Akira; Hayashi, Hiroyuki; Araki, Seiichi; Tamaoki, Satoru; Takahashi, Nobuyuki; Yamauchi, Yukinao; Yamamoto, Yoshiko; Yamamoto, Norio; Ogawa, Chisato

PA Teikoku Hormone Mfg. Co., Ltd., Japan

SO PCT Int. Appl., 261 pp.

CODEN: PIXXD2

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2005082887	A1	20050909	WO 2005-JP3691	20050225
/	W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
	RW:	BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
	AU 2005217320	A1	20050909	AU 2005-217320	20050225
	CA 2557541	A1	20050909	CA 2005-2557541	20050225
	EP 1724267	A1	20061122	EP 2005-719969	20050225
	R:	AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR			
	CN 1922171	A	20070228	CN 2005-80005603	20050225
	US 2007197551	A1	20070823	US 2006-590707	20060825
PRAI	JP 2004-52040	A	20040226		
	JP 2004-322858	A	20041105		
	WO 2005-JP3691	W	20050225		

OS MARPAT 143:286443

RE.CNT 11 THERE ARE 11 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> file reg

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

4.24

742.51

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE

TOTAL

ENTRY

SESSION

CA SUBSCRIBER PRICE

-0.78

-3.90

FILE 'REGISTRY' ENTERED AT 14:42:41 ON 19 SEP 2007

<12/04/2007>

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DICTIONARY FILE UPDATES: 18 SEP 2007 HIGHEST RN 947490-11-1

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=>

Uploading C:\Program Files\Stnexp\Queries\10590707x.str

L12 STRUCTURE UPLOADED

=> s l12 full

FULL SEARCH INITIATED 14:43:07 FILE 'REGISTRY'  
FULL SCREEN SEARCH COMPLETED - 585 TO ITERATE

100.0% PROCESSED 585 ITERATIONS 0 ANSWERS  
SEARCH TIME: 00.00.01

L13 0 SEA SSS FUL L12

=> file reg

COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	173.90	916.41
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	0.00	-3.90

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DICTIONARY FILE UPDATES: 18 SEP 2007 HIGHEST RN 947490-11-1

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<12/04/2007>

Erich Leese

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<http://www.cas.org/support/stngen/stndoc/properties.html>

=>

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L14 STRUCTURE UPLOADED

=> s l14 full

FULL SEARCH INITIATED 14:46:14 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 930 TO ITERATE

100.0% PROCESSED 930 ITERATIONS

1 ANSWERS

SEARCH TIME: 00.00.01

L15 1 SEA SSS FUL L14

=> file caplus

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

172.55

1088.96

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE

TOTAL

ENTRY

SESSION

CA SUBSCRIBER PRICE

0.00

-3.90

FILE 'CAPLUS' ENTERED AT 14:46:34 ON 19 SEP 2007

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FILE LAST UPDATED: 18 Sep 2007 (20070918/ED)

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<12/04/2007>

Erich Leese

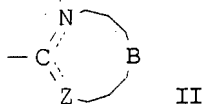
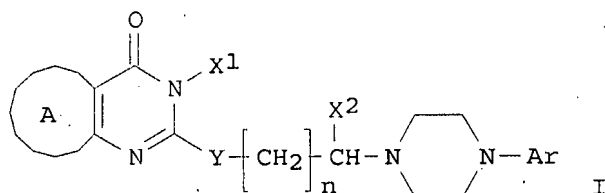
10/513699

=> s l15 full

L16 . 1 L15

=> d abs bib

L16 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2007 ACS on STN  
GI



AB Title compds. I [ring A = carbocyclic group, etc.; X1 = H, amino, etc.; X2 = H, alkyl; Y = bond, etc.; n = 0-4; Ar = optionally substituted II with halo, etc.; Z = O, etc.; B = moiety required for completing mono-, ploy-heterocyclic ring containing N together with N-C-Z; dotted line indicates single, double bond] were prepared. For example, treatment of potassium 3-amino-5,6-dimethyl-4-oxo-3,4-dihydrothieno[2,3-d]pyrimidine-2-thiolate with 2-[4-(3-chloropropyl)piperazin-1-yl]quinoline, e.g., prepared from piperazine in 2 steps, afforded 3-amino-5,6-dimethyl-2-[3-(4-quinolin-2-ylpiperazin-1-yl)propylthio]-3H-thieno[2,3-d]pyrimidin-4-one (III) in 50% yield. In 5-HT3 receptor affinity assay (in vitro), compound III exhibited the antagonistic activity of 94% at 10<sup>-7</sup> M. Compds. I are claimed useful for the treatment of anxiety, depression, etc. Formulation is given.

AN 2005:979639 CAPLUS

DN 143:286443

TI Preparation of pyrimidine derivatives as 5-HT3 receptor antagonists having agonistic activity on 5-HT1A

IN Sato, Michitaka; Matsui, Teruaki; Asagarasu, Akira; Hayashi, Hiroyuki; Araki, Seiichi; Tamaoki, Satoru; Takahashi, Nobuyuki; Yamauchi, Yukinao; Yamamoto, Yoshiko; Yamamoto, Norio; Ogawa, Chisato

PA Teikoku Hormone Mfg. Co., Ltd., Japan

SO PCT Int. Appl., 261 pp.

CODEN: PIXXD2

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2005082887	A1	20050909	WO 2005-JP3691	20050225
	W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC,			

10/513699

LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI,  
NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM,  
SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW  
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM,  
AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK,  
EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT,  
RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML,  
MR, NE, SN, TD, TG

AU 2005217320 A1 20050909 AU 2005-217320 20050225

CA 2557541 A1 20050909 CA 2005-2557541 20050225

EP 1724267 A1 20061122 EP 2005-719969 20050225

R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE,  
IS, IT, LI, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR

CN 1922171 A 20070228 CN 2005-80005603 20050225

US 2007197551 A1 20070823 US 2006-590707 20060825

PRAI JP 2004-52040 A 20040226

JP 2004-322858 A 20041105

WO 2005-JP3691 W 20050225

OS MARPAT 143:286443

RE.CNT 11 THERE ARE 11 CITED REFERENCES AVAILABLE FOR THIS RECORD  
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=> file reg

COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
4.24	1093.20

FULL ESTIMATED COST

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE	TOTAL
ENTRY	SESSION
-0.78	-4.68

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DICTIONARY FILE UPDATES: 18 SEP 2007 HIGHEST RN 947490-11-1

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<12/04/2007>

Erich Leese

10/513699

L17        STRUCTURE UPLOADED

=> s l17 full

FULL SEARCH INITIATED 14:49:06 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED -        100 TO ITERATE

100.0% PROCESSED        100 ITERATIONS

4 ANSWERS

SEARCH TIME: 00.00.01

L18                4 SEA SSS FUL L17

=> file caplus

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

172.55

1265.75

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE

TOTAL

ENTRY

SESSION

CA SUBSCRIBER PRICE

0.00

-4.68

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FILE COVERS 1907 - 19 Sep 2007 VOL 147 ISS 13

FILE LAST UPDATED: 18 Sep 2007 (20070918/ED)

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<http://www.cas.org/infopolicy.html>

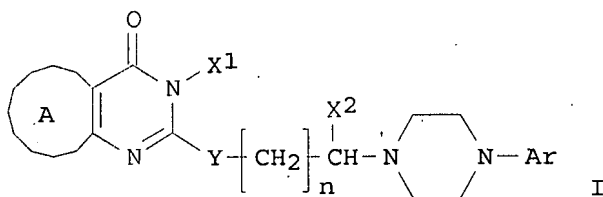
=> s l18 full

L19                1 L18

=> d abs bib

L19 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2007 ACS on STN

GI



AB Title compds. I [ring A = carbocyclic group, etc.; X1 = H, amino, etc.; X2 = H, alkyl; Y = bond, etc.; n = 0-4; Ar = optionally substituted II with halo, etc.; Z = O, etc.; B = moiety required for completing mono-, ploy-heterocyclic ring containing N together with N-C-Z; dotted line indicates single, double bond] were prepared For example, treatment of potassium 3-amino-5,6-dimethyl-4-oxo-3,4-dihydrothieno[2,3-d]pyrimidine-2-thiolate with 2-[4-(3-chloropropyl)piperazin-1-yl]quinoline, e.g., prepared from piperazine in 2 steps, afforded 3-amino-5,6-dimethyl-2-[3-(4-quinolin-2-yl)piperazin-1-yl]propylthio]-3H-thieno[2,3-d]pyrimidin-4-one (III) in 50% yield. In 5-HT3 receptor affinity assay (in vitro), compound III exhibited the antagonistic activity of 94% at 10<sup>-7</sup> M. Compds. I are claimed useful for the treatment of anxiety, depression, etc. Formulation is given.

AN 2005:979639 CAPLUS

DN 143:286443

TI Preparation of pyrimidine derivatives as 5-HT3 receptor antagonists having agonistic activity on 5-HT1A

IN Sato, Michitaka; Matsui, Teruaki; Asagarasu, Akira; Hayashi, Hiroyuki; Araki, Seiichi; Tamaoki, Satoru; Takahashi, Nobuyuki; Yamauchi, Yukinao; Yamamoto, Yoshiko; Yamamoto, Norio; Ogawa, Chisato

PA Teikoku Hormone Mfg. Co., Ltd., Japan

SO PCT Int. Appl., 261 pp.

CODEN: PIXXD2

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2005082887	A1	20050909	WO 2005-JP3691	20050225
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, VZ, VN, YU, ZA, ZM, ZW				
	RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	AU 2005217320	A1	20050909	AU 2005-217320	20050225
	CA 2557541	A1	20050909	CA 2005-2557541	20050225

10/513699

EP 1724267 A1 20061122 EP 2005-719969 20050225  
R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE,  
IS, IT, LI, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR  
CN 1922171 A 20070228 CN 2005-80005603 20050225  
US 2007197551 A1 20070823 US 2006-590707 20060825  
PRAI JP 2004-52040 A 20040226  
JP 2004-322858 A 20041105  
WO 2005-JP3691 W 20050225  
OS MARPAT 143:286443  
RE.CNT 11 THERE ARE 11 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> file reg		
COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	5.18	1270.93
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	-0.78	-5.46

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DICTIONARY FILE UPDATES: 18 SEP 2007 HIGHEST RN 947490-11-1

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<http://www.cas.org/support/stngen/stndoc/properties.html>

=>  
Uploading C:\Program Files\Stnexp\Queries\10590707xi.str

L20 STRUCTURE UPLOADED

=> s l20 full  
FULL SEARCH INITIATED 14:52:36 FILE 'REGISTRY'  
FULL SCREEN SEARCH COMPLETED - 86 TO ITERATE

100.0% PROCESSED 86 ITERATIONS 0 ANSWERS  
SEARCH TIME: 00.00.01

<12/04/2007>

Erich Leese

10/513699

L21 0 SEA SSS FUL L20

=> file reg

COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
173.90	1444.83

FULL ESTIMATED COST

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE	TOTAL
ENTRY	SESSION
0.00	-5.46

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DICTIONARY FILE UPDATES: 18 SEP 2007 HIGHEST RN 947490-11-1

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conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and  
predicted properties as well as tags indicating availability of  
experimental property data in the original document. For information  
on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stngen/stndoc/properties.html>

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L22 STRUCTURE UPLOADED

=> s l22 full

FULL SEARCH INITIATED 14:55:38 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 36 TO ITERATE

100.0% PROCESSED 36 ITERATIONS  
SEARCH TIME: 00.00.01

0 ANSWERS

L23 0 SEA SSS FUL L22

=> file reg

COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
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FULL ESTIMATED COST

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE	TOTAL
ENTRY	SESSION
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<12/04/2007>

Erich Leese



10/513699

FILE 'REGISTRY' ENTERED AT 14:58:05 ON 19 SEP 2007  
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DICTIONARY FILE UPDATES: 18 SEP 2007 HIGHEST RN 947490-11-1

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=>

Uploading C:\Program Files\Stnexp\Queries\10590707vii.str

L24 STRUCTURE UPLOADED

=> s l24 full

FULL SEARCH INITIATED 14:58:28 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 145 TO ITERATE

100.0% PROCESSED 145 ITERATIONS  
SEARCH TIME: 00.00.01

10 ANSWERS

L25 10 SEA SSS FUL L24

=> file caplus

COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
172.10	1790.83

FULL ESTIMATED COST

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE	TOTAL
ENTRY	SESSION
0.00	-5.46

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FILE 'CAPLUS' ENTERED AT 14:58:34 ON 19 SEP 2007  
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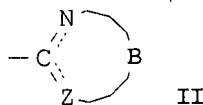
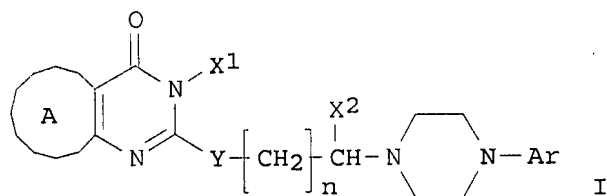
<http://www.cas.org/infopolicy.html>

=> s l25 full

L26 1 L25

=> d abs bib

L26 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2007 ACS on STN  
GI



AB Title compds. I [ring A = carbocyclic group, etc.; X1 = H, amino, etc.; X2 = H, alkyl; Y = bond, etc.; n = 0-4; Ar = optionally substituted II with halo, etc.; Z = O, etc.; B = moiety required for completing mono-, ploy-heterocyclic ring containing N together with N-C-Z; dotted line indicates single, double bond] were prepared For example, treatment of potassium 3-amino-5,6-dimethyl-4-oxo-3,4-dihydrothieno[2,3-d]pyrimidine-2-thiolate with 2-[4-(3-chloropropyl)piperazin-1-yl]quinoline, e.g., prepared from piperazine in 2 steps, afforded 3-amino-5,6-dimethyl-2-[3-(4-quinolin-2-ylpiperazin-1-yl)propylthio]-3H-thieno[2,3-d]pyrimidin-4-one (III) in 50% yield. In 5-HT3 receptor affinity assay (in vitro), compound III exhibited the antagonistic activity of 94% at 10<sup>-7</sup> M. Compds. I are claimed useful for the treatment of anxiety, depression, etc. Formulation is given.

AN 2005:979639 CAPLUS

DN 143:286443

TI Preparation of pyrimidine derivatives as 5-HT3 receptor antagonists having agonistic activity on 5-HT1A

IN Sato, Michitaka; Matsui, Teruaki; Asagarasu, Akira; Hayashi, Hiroyuki; Araki, Seiichi; Tamaoki, Satoru; Takahashi, Nobuyuki; Yamauchi, Yukinao; Yamamoto, Yoshiko; Yamamoto, Norio; Ogawa, Chisato

10/513699

PA Teikoku Hormone Mfg. Co., Ltd., Japan

SO PCT Int. Appl., 261 pp.

CODEN: PIXXD2

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2005082887	A1	20050909	WO 2005-JP3691	20050225
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
	RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	AU 2005217320	A1	20050909	AU 2005-217320	20050225
	CA 2557541	A1	20050909	CA 2005-2557541	20050225
	EP 1724267	A1	20061122	EP 2005-719969	20050225
	R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR				
	CN 1922171	A	20070228	CN 2005-80005603	20050225
	US 2007197551	A1	20070823	US 2006-590707	20060825
PRAI	JP 2004-52040	A	20040226		
	JP 2004-322858	A	20041105		
	WO 2005-JP3691	W	20050225		

OS MARPAT 143:286443

RE.CNT 11 THERE ARE 11 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> file reg

COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
3.77	1794.60

FULL ESTIMATED COST

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE	TOTAL
ENTRY	SESSION
-0.78	-6.24

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<12/04/2007>

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10/513699

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<http://www.cas.org/support/stngen/stndoc/properties.html>

=> file reg

COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
4.05	1798.65

FULL ESTIMATED COST

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE	TOTAL
ENTRY	SESSION
0.00	-6.24

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FILE 'REGISTRY' ENTERED AT 15:05:30 ON 19 SEP 2007

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DICTIONARY FILE UPDATES: 18 SEP 2007 HIGHEST RN 947490-11-1

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=>

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L27 STRUCTURE UPLOADED

=> s l27 full

FULL SEARCH INITIATED 15:06:50 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 244 TO ITERATE

100.0% PROCESSED 244 ITERATIONS

15 ANSWERS

SEARCH TIME: 00.00.01

L28 15 SEA SSS FUL L27

=> file caplus

<12/04/2007>

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10/513699

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

172.55

1971.20

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE

TOTAL

ENTRY

SESSION

CA SUBSCRIBER PRICE

0.00

-6.24

FILE 'CAPLUS' ENTERED AT 15:06:55 ON 19 SEP 2007

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FILE LAST UPDATED: 18 Sep 2007 (20070918/ED)

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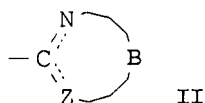
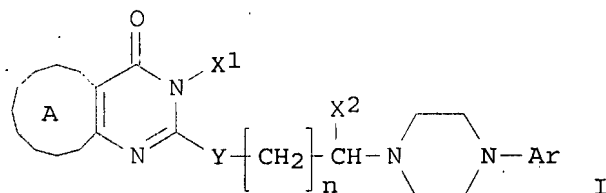
=> s 128 full

L29 1 L28

=> d abs bib

L29 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2007 ACS on STN

GI



AB Title compds. I [ring A = carbocyclic group, etc.; X1 = H, amino, etc.; X2 = H, alkyl; Y = bond, etc.; n = 0-4; Ar = optionally substituted II with halo, etc.; Z = O, etc.; B = moiety required for completing mono-, ploy-heterocyclic ring containing N together with N-C-Z; dotted line indicates single, double bond] were prepared. For example, treatment of potassium 3-amino-5,6-dimethyl-4-oxo-3,4-dihydrothieno[2,3-d]pyrimidine-2-thiolate with 2-[4-(3-chloropropyl)piperazin-1-yl]quinoline, e.g., prepared from piperazine in 2 steps, afforded 3-amino-5,6-dimethyl-2-[3-(4-quinolin-2-yl)piperazin-1-yl]propylthio]-3H-thieno[2,3-d]pyrimidin-4-one (III) in 50% yield. In 5-HT<sub>3</sub> receptor affinity assay (in vitro), compound III exhibited the antagonistic activity of 94% at 10<sup>-7</sup> M. Compds. I are claimed useful for the treatment of anxiety, depression, etc. Formulation is given.

AN 2005:979639 CAPLUS

DN 143:286443

TI Preparation of pyrimidine derivatives as 5-HT<sub>3</sub> receptor antagonists having agonistic activity on 5-HT<sub>1A</sub>

IN Sato, Michitaka; Matsui, Teruaki; Asagarsu, Akira; Hayashi, Hiroyuki; Araki, Seiichi; Tamaoki, Satoru; Takahashi, Nobuyuki; Yamauchi, Yukinao; Yamamoto, Yoshiko; Yamamoto, Norio; Ogawa, Chisato

PA Teikoku Hormone Mfg. Co., Ltd., Japan

SO PCT Int. Appl., 261 pp.

CODEN: PIXXD2

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2005082887	A1	20050909	WO 2005-JP3691	20050225
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
	RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	AU 2005217320	A1	20050909	AU 2005-217320	20050225
	CA 2557541	A1	20050909	CA 2005-2557541	20050225
	EP 1724267	A1	20061122	EP 2005-719969	20050225
	R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR				
	CN 1922171	A	20070228	CN 2005-80005603	20050225
	US 2007197551	A1	20070823	US 2006-590707	20060825
PRAI	JP 2004-52040	A	20040226		
	JP 2004-322858	A	20041105		
	WO 2005-JP3691	W	20050225		

OS MARPAT 143:286443

RE.CNT 11 THERE ARE 11 CITED REFERENCES AVAILABLE FOR THIS RECORD  
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COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

4.24

1975.44

10/513699

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
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L30 STRUCTURE UPLOADED

=> s l30 full

FULL SEARCH INITIATED 15:09:48 FILE 'REGISTRY'  
FULL SCREEN SEARCH COMPLETED - 246 TO ITERATE

100.0% PROCESSED	246 ITERATIONS	3 ANSWERS
SEARCH TIME: 00.00.01		

L31 3 SEA SSS FUL L30

=> file caplus

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	172.55	2147.99

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	0.00	-7.02

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<12/04/2007>

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=> s l31 full  
L32 0 L31

=> file reg	SINCE FILE	TOTAL
COST IN U.S. DOLLARS	ENTRY	SESSION
FULL ESTIMATED COST	1.88	2149.87
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	0.00	-7.02

FILE 'REGISTRY' ENTERED AT 15:12:26 ON 19 SEP 2007  
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DICTIONARY FILE UPDATES: 18 SEP 2007 HIGHEST RN 947490-11-1

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Uploading C:\Program Files\Stnexp\Queries\10590707xiii.str

L33 STRUCTURE UPLOADED

<12/04/2007>

Erich Leese



10/513699

=> s l33 full

FULL SEARCH INITIATED 15:13:02 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 242 TO ITERATE

100.0% PROCESSED 242 ITERATIONS

0 ANSWERS

SEARCH TIME: 00.00.01

L34 0 SEA SSS FUL L33

=>

Uploading C:\Program Files\Stnexp\Queries\10590707iv.str

L35 STRUCTURE UPLOADED

=> s l35 full

FULL SEARCH INITIATED 15:18:01 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 5952 TO ITERATE

100.0% PROCESSED 5952 ITERATIONS

0 ANSWERS

SEARCH TIME: 00.00.01

L36 0 SEA SSS FUL L35

=> file reg

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

348.70

2498.57

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE

TOTAL

ENTRY

SESSION

CA SUBSCRIBER PRICE

0.00

-7.02

FILE 'REGISTRY' ENTERED AT 15:19:47 ON 19 SEP 2007

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DICTIONARY FILE UPDATES: 18 SEP 2007 HIGHEST RN 947490-11-1

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=>

<12/04/2007>

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L37        STRUCTURE UPLOADED

=> s l37 full

FULL SEARCH INITIATED 15:20:32 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED -        163 TO ITERATE

100.0% PROCESSED        163 ITERATIONS

1 ANSWERS

SEARCH TIME: 00.00.01

L38        1 SEA SSS FUL L37

=> file caplus

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

172.10

2670.67

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE

TOTAL

ENTRY

SESSION

CA SUBSCRIBER PRICE

0.00

-7.02

FILE 'CAPLUS' ENTERED AT 15:20:38 ON 19 SEP 2007

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<http://www.cas.org/infopolicy.html>

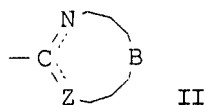
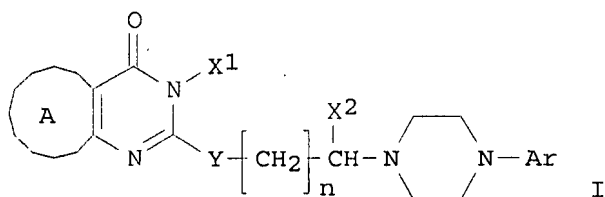
=> s l38 full

L39        1 L38

=> d abs bib

L39 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2007 ACS on STN

GI



AB Title compds. I [ring A = carbocyclic group, etc.; X1 = H, amino, etc.; X2 = H, alkyl; Y = bond, etc.; n = 0-4; Ar = optionally substituted II with halo, etc.; Z = O, etc.; B = moiety required for completing mono-, ploy-heterocyclic ring containing N together with N-C-Z; dotted line indicates single, double bond] were prepared. For example, treatment of potassium 3-amino-5,6-dimethyl-4-oxo-3,4-dihydrothieno[2,3-d]pyrimidine-2-thiolate with 2-[4-(3-chloropropyl)piperazin-1-yl]quinoline, e.g., prepared from piperazine in 2 steps, afforded 3-amino-5,6-dimethyl-2-[3-(4-quinolin-2-yl)piperazin-1-yl]propylthio]-3H-thieno[2,3-d]pyrimidin-4-one (III) in 50% yield. In 5-HT3 receptor affinity assay (in vitro), compound III exhibited the antagonistic activity of 94% at 10<sup>-7</sup> M. Compds. I are claimed useful for the treatment of anxiety, depression, etc. Formulation is given.

AN 2005:979639 CAPLUS

DN 143:286443

TI Preparation of pyrimidine derivatives as 5-HT3 receptor antagonists having agonistic activity on 5-HT1A

IN Sato, Michitaka; Matsui, Teruaki; Asagarasu, Akira; Hayashi, Hiroyuki; Araki, Seiichi; Tamaoki, Satoru; Takahashi, Nobuyuki; Yamauchi, Yukinao; Yamamoto, Yoshiko; Yamamoto, Norio; Ogawa, Chisato

PA Teikoku Hormone Mfg. Co., Ltd., Japan

SO PCT Int. Appl., 261 pp.

CODEN: PIXXD2

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2005082887	A1	20050909	WO 2005-JP3691	20050225
	W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
	RW:	BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW; AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
	AU 2005217320	A1	20050909	AU 2005-217320	20050225
	CA 2557541	A1	20050909	CA 2005-2557541	20050225

10/513699

EP 1724267 A1 20061122 EP 2005-719969 20050225  
R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE,  
IS, IT, LI, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR  
CN 1922171 A 20070228 CN 2005-80005603 20050225  
US 2007197551 A1 20070823 US 2006-590707 20060825  
PRAI JP 2004-52040 A 20040226  
JP 2004-322858 A 20041105  
WO 2005-JP3691 W 20050225  
OS MARPAT 143:286443  
RE.CNT 11 THERE ARE 11 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

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L40 STRUCTURE UPLOADED

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<12/04/2007>

Erich Leese

10/513699

L41 105 SEA SSS FUL L40

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FILE COVERS 1907 - 19 Sep 2007 VOL 147 ISS 13

FILE LAST UPDATED: 18 Sep 2007 (20070918/ED)

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L42 3 L41

=> d ibib abs hitstr tot

L42 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2007:729635 CAPLUS

DOCUMENT NUMBER: 147:72778

TITLE: Preparation of quinazolinone derivatives and related analogs as antiproliferative agents

INVENTOR(S): Bergnes, Gustave

PATENT ASSIGNEE(S): Cytokinetics, Inc., USA

SOURCE: PCT Int. Appl., 54pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 2

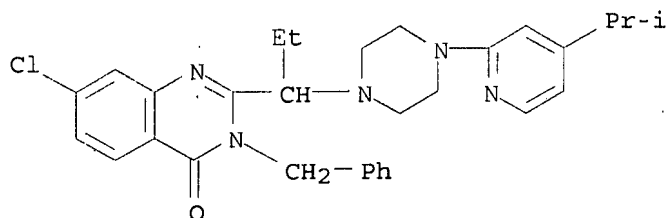
PATENT INFORMATION:

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WO 2004018058	A2	20040304	WO 2003-US26093	20030820
WO 2004018058	A3	20040701		
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CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,  
 GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,  
 LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM,  
 PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN,  
 TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW  
 RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY,  
 KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES,  
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 AU 2003262747 A1 20040311 AU 2003-262747 20030820  
 EP 1539180 A2 20050615 EP 2003-793179 20030820  
 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,  
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 JP 2005536553 T 20051202 JP 2004-531141 20030820  
 PRIORITY APPLN. INFO.: US 2002-404864P P 20020821  
 WO 2003-US26093 W 20030820  
 OTHER SOURCE(S): MARPAT 147:72778  
 GI

\* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT \*

AB Title compds. I [R1-4 independently = H, OH, (un)substituted alkyl, etc.;  
 R5 = H, (un)substituted alkyl, aryl, or aralkyl; R6 and R9 independently =  
 H, (un)substituted alkyl, aryl, etc.; R7 = (un)substituted alkyl, aryl or  
 aralkyl; R8 = H, (un)substituted alkyl, aryl or aralkyl; n = 1 or 2], and  
 their pharmaceutically acceptable salts, are prepared and disclosed as  
 antiproliferative agents by modulation of KSP (a mitotic kinesin)  
 activity. Thus, e.g., II was prepared by substitution of  
 3-benzyl-2-(1-bromopropyl)-7-chloro-3H-quinazolin-4-one with  
 3-p-tolylpiperazine-1-carboxylic acid tert-Bu ester. Bioassays are  
 described and the compds. of the invention were stated to show activity.  
 IT 941712-02-3P  
 RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU  
 (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES  
 (Uses)  
 (preparation of quinazolinone derivs. and related analogs as antiproliferative  
 agents)  
 RN 941712-02-3 CAPLUS  
 CN 4(3H)-Quinazolinone, 7-chloro-2-[1-[4-[4-(1-methylethyl)-2-pyridinyl]-1-  
 piperazinyl]propyl]-3-(phenylmethyl)- (CA INDEX NAME)



L42 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 2005:979639 CAPLUS  
 DOCUMENT NUMBER: 143:286443

10/513699

TITLE: Preparation of pyrimidine derivatives as 5-HT3  
receptor antagonists having agonistic activity on  
5-HT1A

INVENTOR(S): Sato, Michitaka; Matsui, Teruaki; Asagarasu, Akira;  
Hayashi, Hiroyuki; Araki, Seiichi; Tamaoki, Satoru;  
Takahashi, Nobuyuki; Yamauchi, Yukinao; Yamamoto,  
Yoshiko; Yamamoto, Norio; Ogawa, Chisato

PATENT ASSIGNEE(S): Teikoku Hormone Mfg. Co., Ltd., Japan

SOURCE: PCT Int. Appl., 261 pp.  
CODEN: PIXXD2

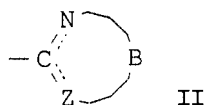
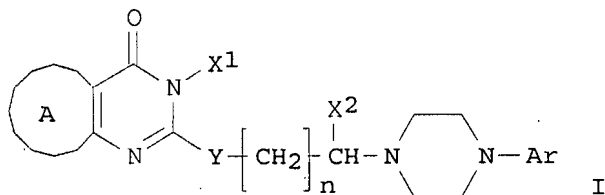
DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

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CA 2557541	A1	20050909	CA 2005-2557541	20050225
EP 1724267	A1	20061122	EP 2005-719969	20050225
R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR				
CN 1922171	A	20070228	CN 2005-80005603	20050225
US 2007197551	A1	20070823	US 2006-590707	20060825
PRIORITY APPLN. INFO.:			JP 2004-52040	A 20040226
			JP 2004-322858	A 20041105
			WO 2005-JP3691	W 20050225
OTHER SOURCE(S):		MARPAT 143:286443		
GI				



AB Title compds. I [ring A = carbocyclic group, etc.; X1 = H, amino, etc.; X2 = H, alkyl; Y = bond, etc.; n = 0-4; Ar = optionally substituted II with halo, etc.; Z = O, etc.; B = moiety required for completing mono-, ploy-heterocyclic ring containing N together with N-C-Z; dotted line indicates single, double bond] were prepared For example, treatment of potassium 3-amino-5,6-dimethyl-4-oxo-3,4-dihydrothieno[2,3-d]pyrimidine-2-thiolate with 2-[4-(3-chloropropyl)piperazin-1-yl]quinoline, e.g., prepared from piperazine in 2 steps, afforded 3-amino-5,6-dimethyl-2-[3-(4-quinolin-2-yl)piperazin-1-yl]propylthio]-3H-thieno[2,3-d]pyrimidin-4-one (III) in 50% yield. In 5-HT<sub>3</sub> receptor affinity assay (in vitro), compound III exhibited the antagonistic activity of 94% at 10<sup>-7</sup> M. Compds. I are claimed useful for the treatment of anxiety, depression, etc. Formulation is given.

IT 864385-97-7P 864385-98-8P 864386-03-8P  
 864386-04-9P 864386-05-0P 864386-07-2P  
 864386-09-4P 864386-10-7P 864386-11-8P  
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 864386-16-3P 864386-18-5P 864386-19-6P  
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RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

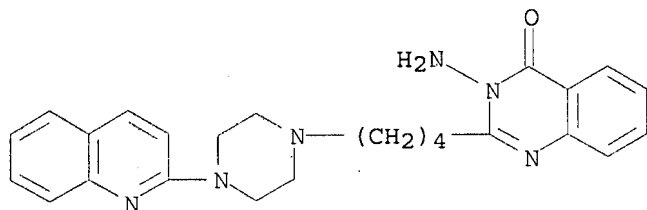
(preparation of pyrimidine derivs. as 5-HT<sub>3</sub> receptor antagonists having agonistic activity on 5-HT<sub>1A</sub> for treatment of anxiety, depression, etc.)

RN 864385-97-7 CAPLUS

CN 4(3H)-Quinazolinone, 3-amino-2-[4-[4-(2-quinolinyl)-1-piperazinyl]butyl]-  
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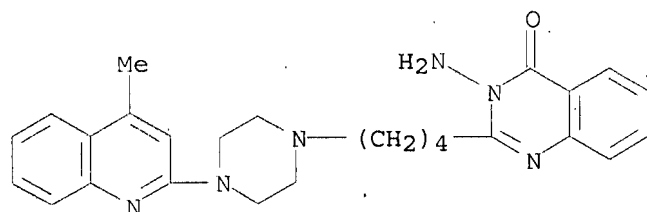


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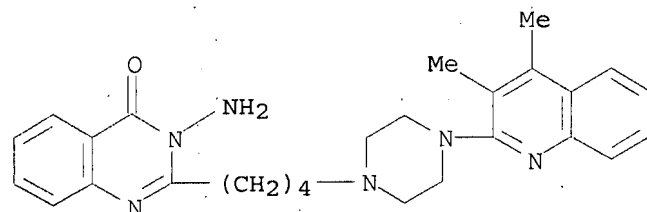
RN 864385-98-8 CAPLUS

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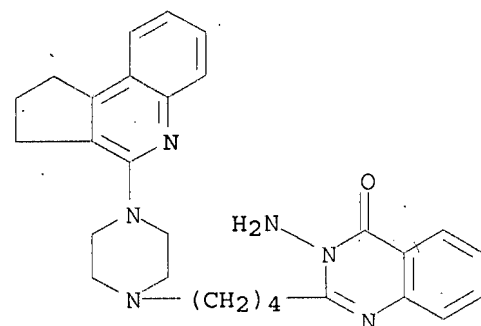
RN 864386-03-8 CAPLUS

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RN 864386-04-9 CAPLUS

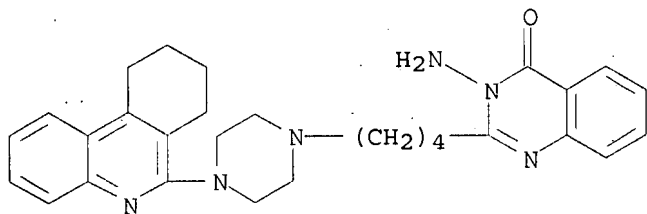
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10/513699

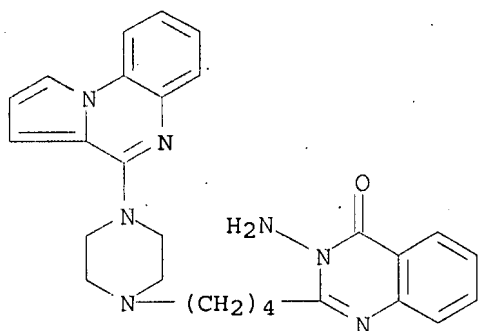
RN 864386-05-0 CAPLUS

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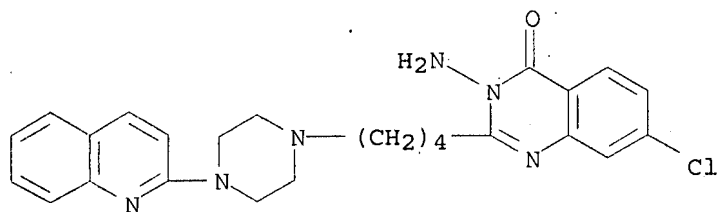
RN 864386-07-2 CAPLUS

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RN 864386-09-4 CAPLUS

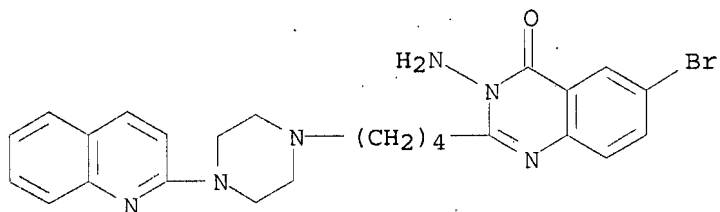
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RN 864386-10-7 CAPLUS

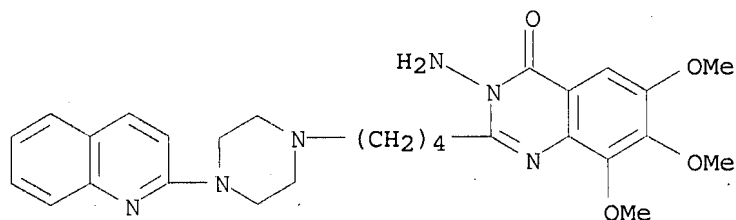
CN 4(3H)-Quinazolinone, 3-amino-6-bromo-2-[4-[4-(2-quinolinyl)-1-piperazinyl]butyl]- (CA INDEX NAME)

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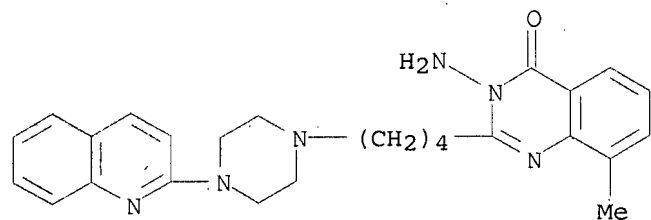
RN 864386-11-8 CAPLUS

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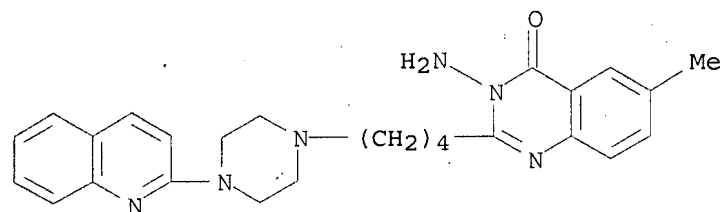
RN 864386-13-0 CAPLUS

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RN 864386-14-1 CAPLUS

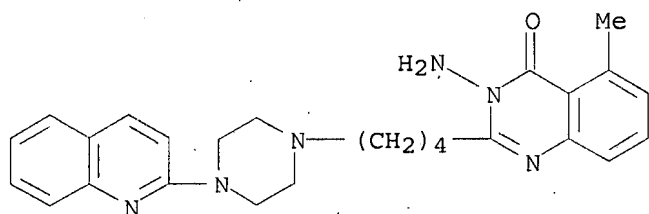
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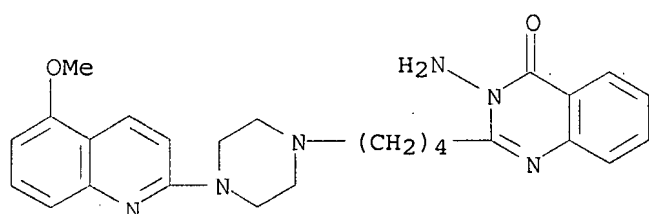
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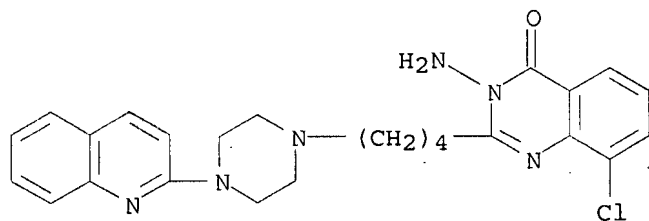
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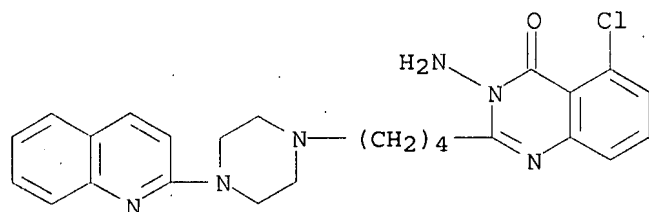
RN 864386-18-5 CAPLUS

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RN 864386-19-6 CAPLUS

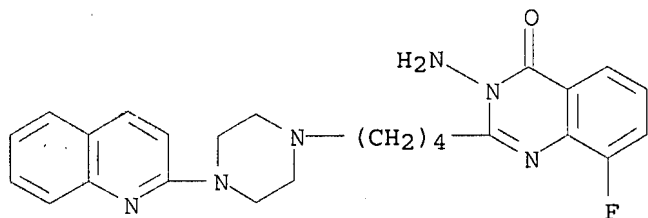
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RN 864386-21-0 CAPLUS

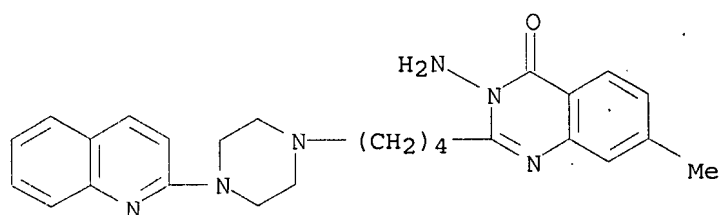
CN 4(3H)-Quinazolinone, 3-amino-8-fluoro-2-[4-[4-(2-quinolinyl)-1-piperazinyl]butyl]- (CA INDEX NAME)

10/513699



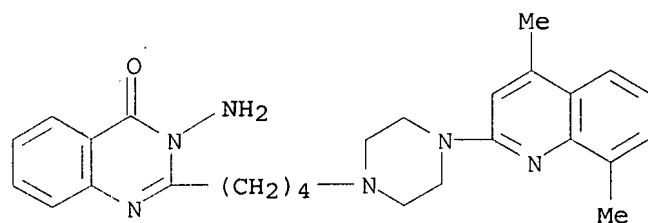
RN 864386-23-2 CAPLUS

CN 4(3H)-Quinazolinone, 3-amino-7-methyl-2-[4-[4-(2-quinolinyl)-1-piperazinyl]butyl]- (CA INDEX NAME)



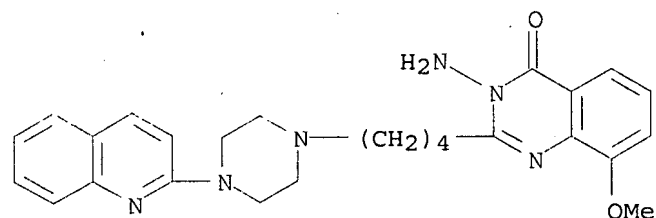
RN 864386-28-7 CAPLUS

CN 4(3H)-Quinazolinone, 3-amino-2-[4-[4-(4,8-dimethyl-2-quinolinyl)-1-piperazinyl]butyl]- (CA INDEX NAME)



RN 864386-34-5 CAPLUS

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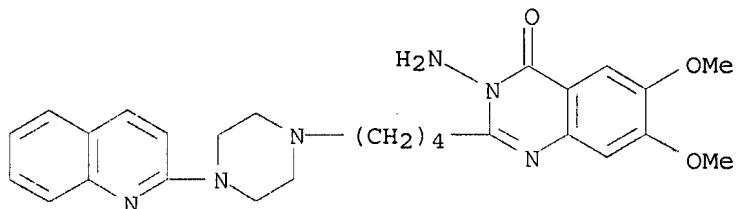


RN 864386-35-6 CAPLUS

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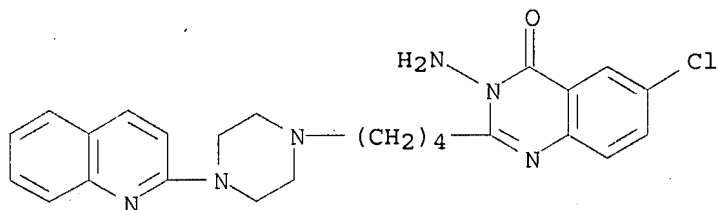
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piperazinyl]butyl] - (CA INDEX NAME)



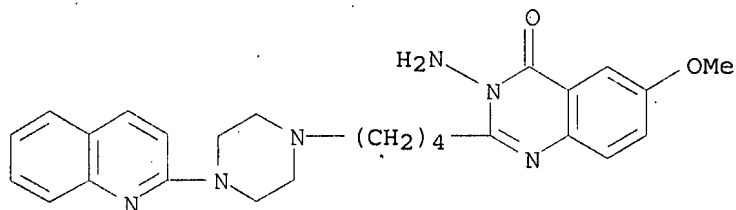
RN 864386-45-8 CAPLUS

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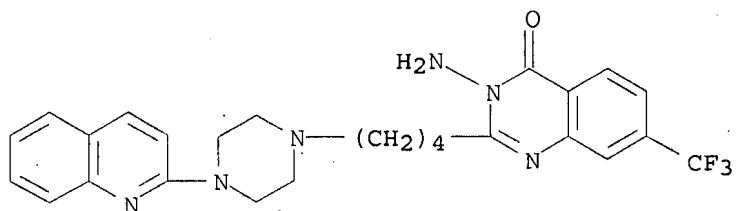
RN 864386-46-9 CAPLUS

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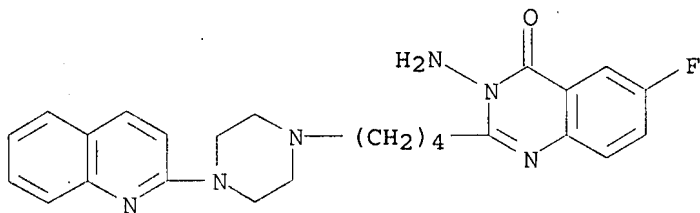
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RN 864386-49-2 CAPLUS

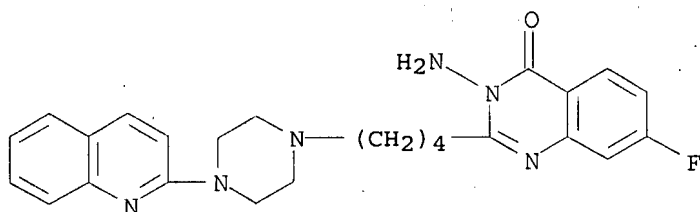
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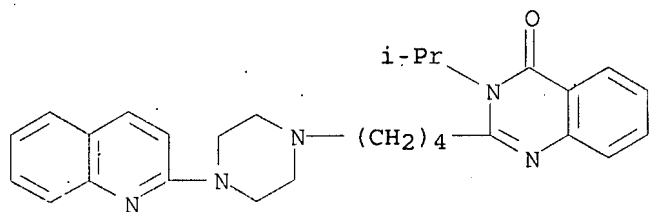
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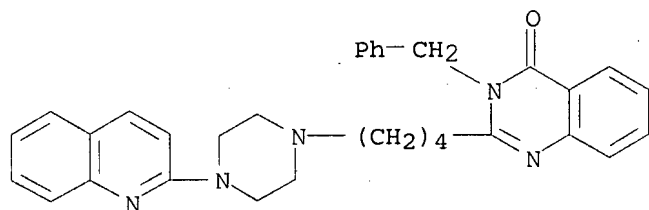
RN 864386-90-3 CAPLUS

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RN 864386-91-4 CAPLUS

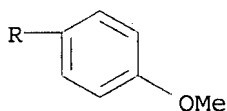
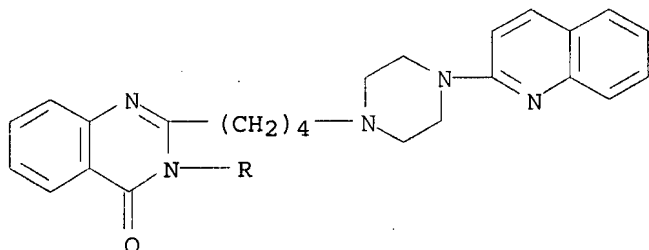
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10/513699

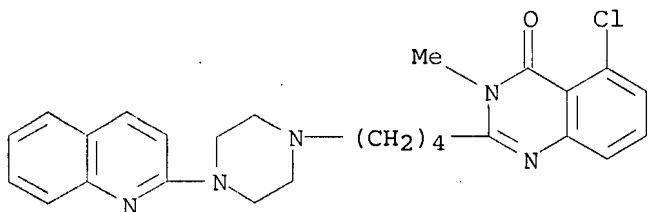
RN 864386-92-5 CAPLUS

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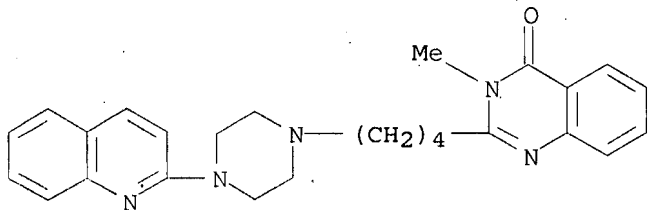
RN 864386-93-6 CAPLUS

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RN 864386-95-8 CAPLUS

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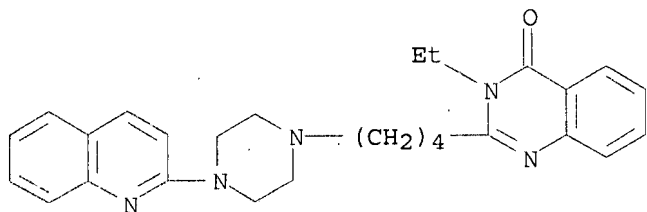
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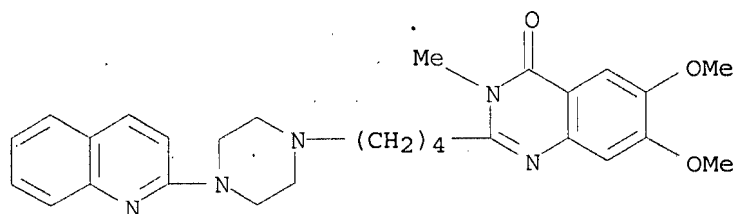


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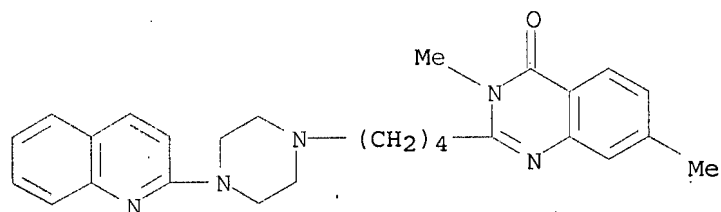
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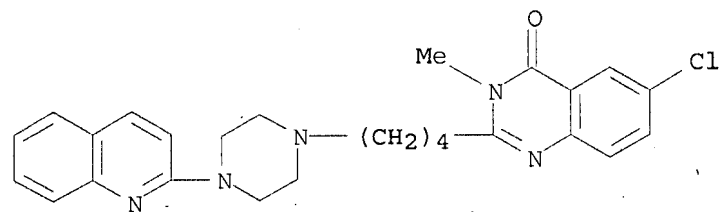
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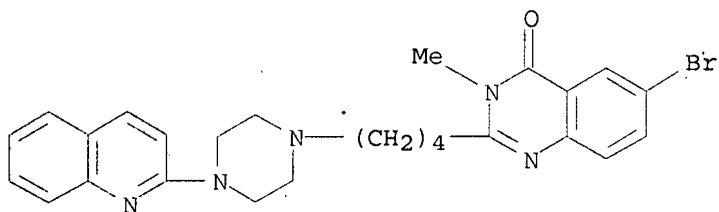
RN 864387-00-8 CAPLUS

CN 4(3H)-Quinazolinone, 6-chloro-3-methyl-2-[4-[4-(2-quinolinyl)-1-piperazinyl]butyl]- (CA INDEX NAME)



RN 864387-01-9 CAPLUS

CN 4(3H)-Quinazolinone, 6-bromo-3-methyl-2-[4-[4-(2-quinolinyl)-1-piperazinyl]butyl]- (CA INDEX NAME)



REFERENCE COUNT: 11 THERE ARE 11 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L42 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2002:465983 CAPLUS

DOCUMENT NUMBER: 137:47214

TITLE: Preparation of 2-substituted-4(3H)-quinazolinone derivatives as PARP inhibitors

INVENTOR(S): Matsuoka, Nobuya; Iwashita, Akinori; Yamazaki, Shunji; Miyake, Hiroshi; Ohkubo, Mitsuru; Kamiyo, Kazunori; Nakanishi, Isao; Hattori, Kouji; Kido, Yoshiyuki; Ishida, Junya; Yamamoto, Hirofumi

PATENT ASSIGNEE(S): Fujisawa Pharmaceutical Co., Ltd., Japan

SOURCE: PCT Int. Appl., 91 pp.

CODEN: PIXXD2

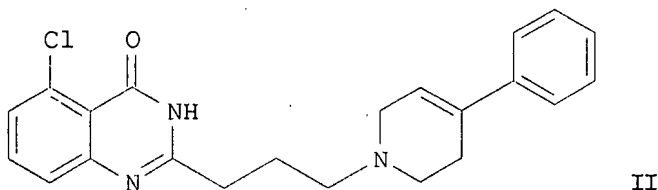
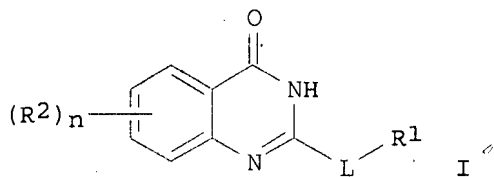
DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002048117	A1	20020620	WO 2001-JP10601	20011205
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
CA 2431406	A1	20020620	CA 2001-2431406	20011205
AU 2002021047	A5	20020624	AU 2002-21047	20011205
EP 1355888	A1	20031029	EP 2001-270531	20011205
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JP 2004515544	T	20040527	JP 2002-549648	20011205
US 2004077667	A1	20040422	US 2003-433947	20030609
PRIORITY APPLN. INFO.:			AU 2000-2016	A 20001211
			WO 2001-JP10601	W 20011205
OTHER SOURCE(S):		MARPAT 137:47214		
GI				



AB Title compds. I [ R1 = (un)substituted cyclic amino group(s); R2 = substituent; n = 0-4; L = alkylene, alkenylene] were prepared For instance, 2-amino-6-chlorobenzamide was coupled to 4-pentenoyl chloride (THF, i-PrNEt<sub>2</sub>, 5°C, 30 min) and the product treated with 1N NaOH to afford 2-(3-butenyl)-5-chloro-4(3H)-quinazolinone. This intermediate was oxidatively cleaved (dioxane, OsO<sub>4</sub>, t-BuOH; NaIO<sub>4</sub>) effecting cyclization to 8-chloro-1-hydroxy-2,3-dihydropyrrolo[2,1-b]quinazoline-9(1H)-one isolated as a colorless powder. This was used to alkylate 1,2,3,6-tetrahydro-4-phenylpyridine (CH<sub>3</sub>CN<sub>aq</sub>, HOAc, NaCNBH<sub>3</sub>) to afford II. Selected compds. of the invention had IC<sub>50</sub> < 0.5 μM for poly(ADP-ribose)polymerase (PARP). I are useful for the treatment of NMDA- and NO-induced toxicity, tissue damage resulting from apoptosis, etc.

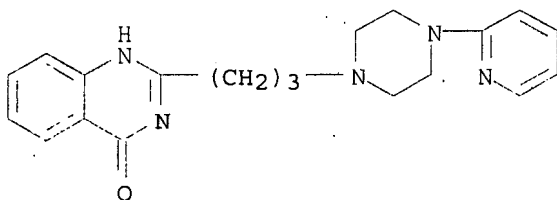
IT 437997-62-1P 437997-63-2P 437997-64-3P  
437997-65-4P 437997-66-5P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(drug; preparation of 2-[ω-substituted(hetero)aryl-alkyl]substituted-4(3H)-quinazolinone derivs.)

RN 437997-62-1 CAPLUS

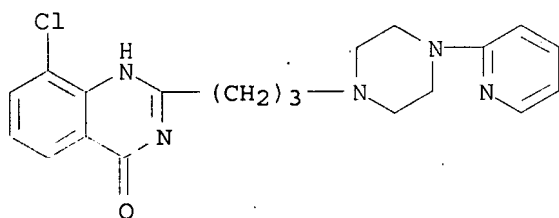
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(CA INDEX NAME)



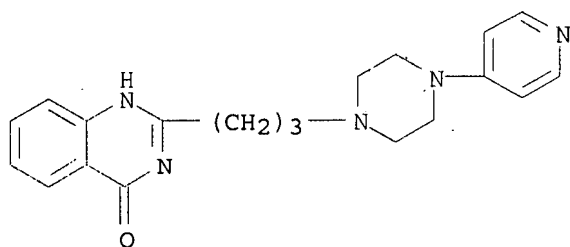
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(CA INDEX NAME)

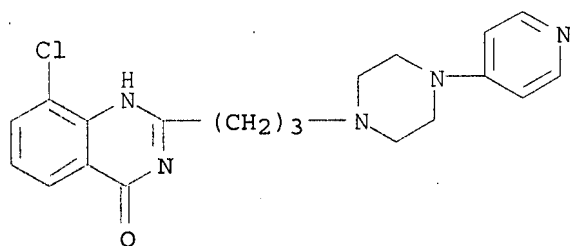
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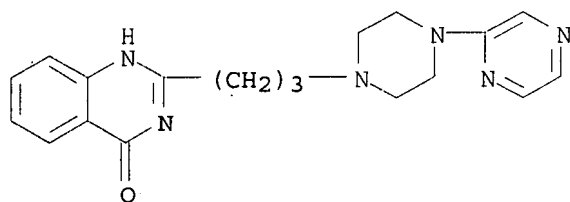
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(CA INDEX NAME)



RN 437997-65-4 CAPLUS  
CN 4(1H)-Quinazolinone, 8-chloro-2-[3-[4-(4-pyridinyl)-1-piperazinyl]propyl]- (9CI) (CA INDEX NAME)



RN 437997-66-5 CAPLUS  
CN 4(1H)-Quinazolinone, 2-[3-(4-pyrazinyl-1-piperazinyl)propyl]- (9CI) (CA INDEX NAME)



REFERENCE COUNT:

7

THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS  
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

<12/04/2007>

Erich Leese

10/513699

=> d his

(FILE 'HOME' ENTERED AT 13:54:18 ON 19 SEP 2007)

FILE 'REGISTRY' ENTERED AT 14:09:32 ON 19 SEP 2007

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FILE 'CAPLUS' ENTERED AT 14:10:41 ON 19 SEP 2007

L3 3 S L2 FULL

FILE 'REGISTRY' ENTERED AT 14:20:22 ON 19 SEP 2007

L4 STRUCTURE UPLOADED  
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FILE 'REGISTRY' ENTERED AT 14:21:32 ON 19 SEP 2007

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FILE 'CAPLUS' ENTERED AT 14:21:32 ON 19 SEP 2007

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L8 1 S L7 FULL

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L14 STRUCTURE UPLOADED  
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L21 0 S L20 FULL

<12/04/2007>

Erich Leese

10/513699

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L29 1 S L28 FULL

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